Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0605-47 Date Received 5/24/06 By CT Permit # 24584

Application Approved by - Zoning Official BLK Date 01.06.06 Plans Examiner OK JTH Date 5-31-06

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments Section 2.3.1

EH needed

Applicants Name Mangrum Construction, Inc / David Mangrum Phone 386-752-6399

Address P.O. Box 2103 Lake City, Fl 32056-2103

Owners Name Mangrum Construction, Inc. Phone 386-752-6399

911 Address 386 SW Mollie Ter. Lake City, Fl 32024

Contractors Name Mangrum Construction, Inc. Phone 386-752-6399

Address P.O. Box 2103 Lake City, Fl 32056-2103

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Fred C. Jones P.E.

Mortgage Lenders Name & Address CASH

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progressive Energy

Property ID Number 07 4S 16 02808.025 Estimated Cost of Construction 80,000.00

Subdivision Name Barwick West (Unrecorded) Lot 7 Block ____ Unit ____ Phase ____

Driving Directions US 90 W to Pinemount Rd go SW to Barwick Rd, Turn Left go to Parker Rd turn Right go to Mollie Ter. turn Left Lot's #6 & 7 & 8 500 yards on the right.

Type of Construction Residented New Construction Number of Existing Dwellings on Property 0

Total Acreage 2.950 Lot Size 128.33x932 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 100' Side 86.38 Side 86.38 Rear 436.80

Total Building Height 17' Number of Stories 1 Heated Floor Area 1438 Roof Pitch 4/12

Porch 120 Garage 400 TOTAL 1958

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Mangrum Construction, Inc.
Owner Builder or Agent (Including Contractor)

David E Mangrum
Contractor Signature

Contractors License Number RB-29003100

Competency Card Number 5661

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

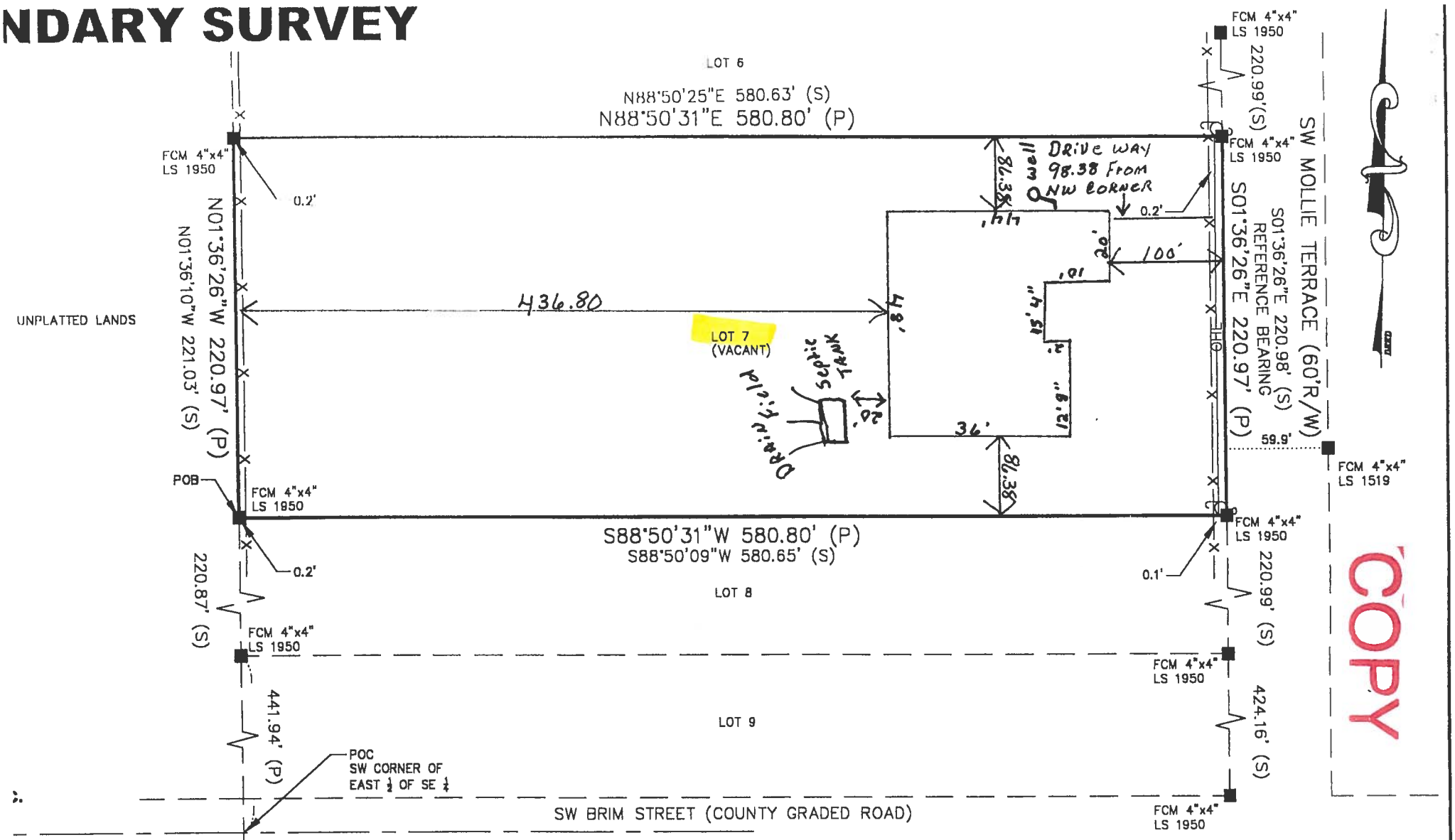
Sworn to (or affirmed) and subscribed before me this 24th day of May 2006.

Personally known ____ or Produced Identification ____

Debra A Bowden
Notary Signature

DEBRA ANN BOWDEN
Comm# DD0535439
Expires 4/2/2010
Bonded by (800)432-4254
Florida Notary Assn. Inc

NDARY SURVEY



ED. THE PUBLIC RECORDS,
MENTS, TITLE, COVENANTS,
ETC., THERE COULD BE
EL.

MY DIRECT
STANDARDS
7-6, FLORIDA
TUES.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

REV:

WILLIAM N. KITCHEN
PROFESSIONAL SURVEYOR AND MAPPER
152 N MARION AVENUE
LAKE CITY, FLORIDA 32055
PHONE (386) 755-7786

DRAWN BY: RI | FIELD BOOK: 06087

SCALE: 1" = 80'

DATE: MARCH 07, 2006

JOB NUMBER	SHEET
06087	1 OF 1

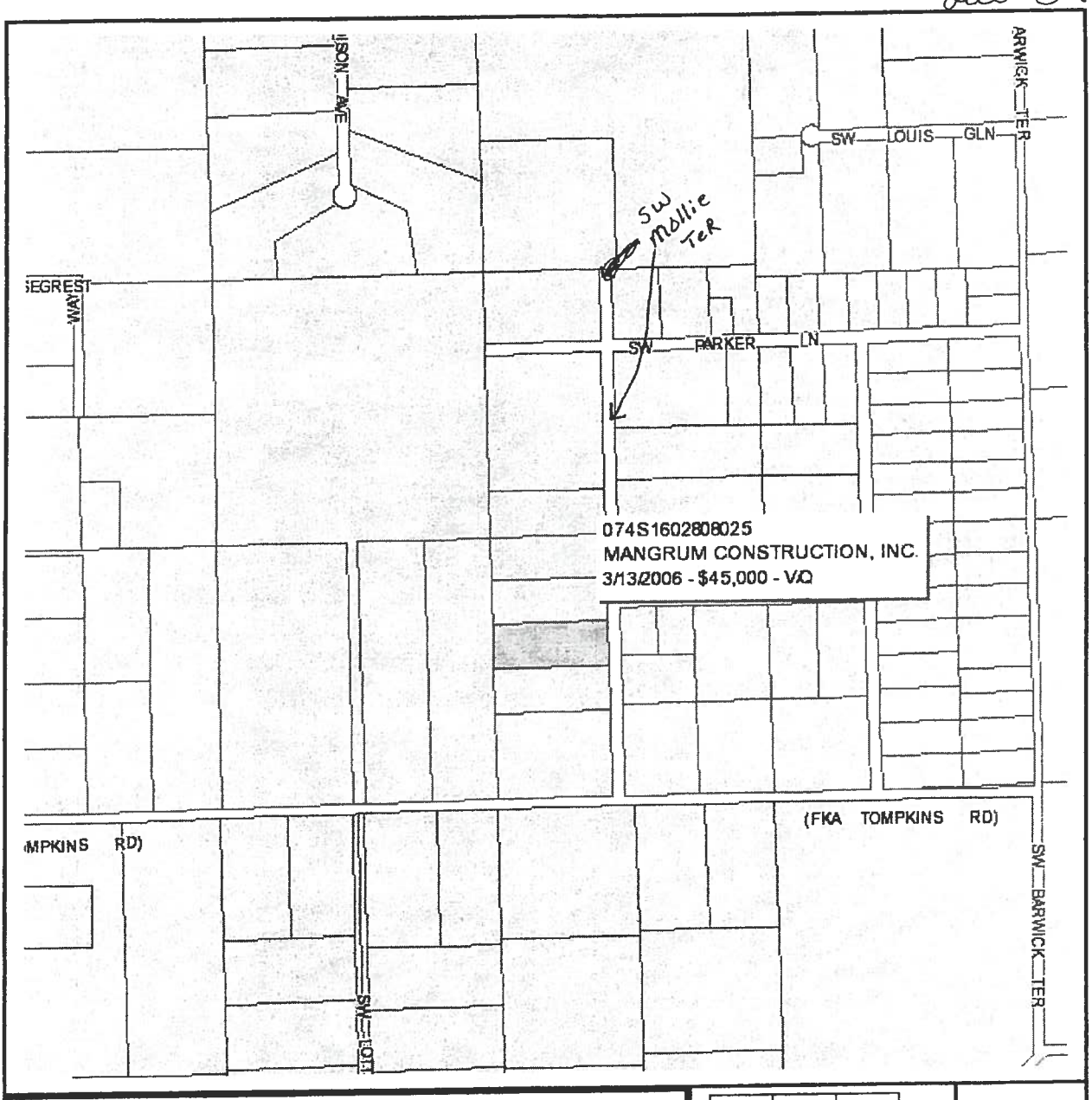
CLIENT: MANGRUM CONSTRUCTION, INC.

LEGEND

(P) = PLAT
(S) = SURVEY MEASUREMENT
NOID = NO SURVEYORS IDENTIFICATION
LS = LAND SURVEYOR
FCM = FOUND CONCRETE MONUMENT
POC = POINT OF COMMENCEMENT
POB = POINT OF BEGINNING
R/W = RIGHT OF WAY
OHE = OVER HEAD ELECTRIC

X --- X = WIRE FENCE
= POWER POLE

Lot #57



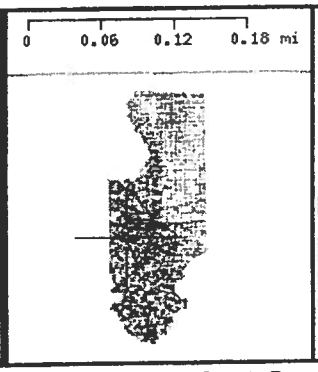
Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 07-4S-16-02808-025 - NO AG ACRE (009900) 2.950 Acres

COMM AT THE SW COR OF THE E 1/2 OF THE SE 1/4. RUN N 662.91 FT. TO POB. CONT. N

Name:	MANGRUM CONSTRUCTION, INC.	LandVal	$29,500.00
Site:		BldgVal	$0.00
Mail:	634 SE MAYHALL TERR LAKE CITY, FL 32025	ApprVal	$29,500.00
		JustVal	$29,500.00
Sales Info	3/13/2006 $45,000.00 V / Q	Assd	$29,500.00
		Exmpt	$0.00
		Taxable	$29,500.00



This information, GIS Map Updated: 4/6/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessme... purposes.

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

******THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.******

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 07 4S 16 02808 025 PERMIT NUMBER

1. Description of property: (legal description of the property and street address or 911 address) → 386 SW Mollie Ter Lake City, FL 32024
Lot 7 Barwick West Township 4 South, Range 16 E Section 7: Commence at the Southwest Corner of the East ½ of the SE ¼ and run N01 deg. 36'2" W 662.91 feet to the point of beginning; thence continue N 01 deg. 36'26" W 220.97 feet; thence N 88 deg. 50' 31" E 580.80 feet; thence S 01 deg. 36'26" E 220.97 feet; thence S 88 deg. 50'31" W 580.80 feet to the point of beginning. Lying in Columbia County FL
2. General description of improvement: Residential New Construction
3. Owner Name & Address Mangrum Construction, Inc. P.O. Box 2103 Lake City, FL 32056-2103 Interest in Property 100 %
4. Name & Address of Fee Simple Owner (if other than owner): N/A
5. Contractor Name Mangrum Construction, Inc. Phone Number 386-752-6399
Address P.O. Box 2103 Lake City, FL 32056-2103
6. Surety Holders Name N/A Phone Number
Address
Amount of Bond
7. Lender Name N/A Phone Number
Address
8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:
Name David E Mangrum Phone Number 386-752-6399
Address P.O. Box 2103 Lake City, FL 32056-2103
9. In addition to himself/herself the owner designates N/A of
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee N/A
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified)

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Sworn to (or affirmed) and subscribed before me this 24th day of May, 2006

David E Mangrum
Signature of Owner

NOTARY STAMP/SEAL

DEBRA ANN BOWDEN
Comm# DD0535439
Expires 4/2/2010
Bonded by (800)432-4254
Florida Notary Assn., Inc

Debra A Bowden
Signature of Notary

Inst:200612602 Date:05/24/2006 Time:12:52
DC,P.DeWitt Cason,Columbia County B:1084 P:1871

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 4/20/2006 **DATE ISSUED:** 4/27/2006

ENHANCED 9-1-1 ADDRESS:

386 SW MOLLIE TER

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

07-4S-16-02808-025

Remarks:

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

196

COLUMBIA COUNTY
9-1-1 ADDRESSING

315.00
338.50

WARRANTY DEED

THIS INDENTURE, made this 13 day of March, 2006, between C. A. BOSTON, JR. and BETTY L. BOSTON, his wife, whose address is Post Office Box 721, Lake City, Florida 32056, Grantors, and MANGRUM CONSTRUCTION, INC., a Florida corporation, whose address is 634 SE Mayhall Terrace, Lake City, Florida 32025, Grantee,

W I T N E S S E T H:

That said Grantors, for and in consideration of the sum of TEN AND NO/100 ($10.00) DOLLARS, and other good and valuable considerations to said Grantors in hand paid by said Grantee, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in COLUMBIA County, Florida, to-wit:

SEE SCHEDULE A ATTACHED HERETO (Lot 7)

Tax parcel number R02808-016 (cutout)

SUBJECT TO: Taxes for 2006 and subsequent years; restrictions and easements of record; and easements shown by the plat of said property.

Said Grantors do hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, Grantors have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered
in the presence of:

Eddie M Anderson
Print Name: Eddie M Anderson

Julie Calloway
Print Name: Julie Calloway
Witnesses as to Grantors

C A Boston JR
C. A. BOSTON, JR.

Betty L. Boston
BETTY L. BOSTON

This Instrument Prepared I.
EDDIE M. ANDERSON, P.A.
P. O. Box 1179
Lake City, Florida 32056-1179

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 13 day of March, 2006, by C. A. BOSTON, JR. and BETTY L. BOSTON. They produced FDL as identification.

(Notarial Seal)

Notary Public State of Florida
Julie Calloway
My Commission DD501123
Expires 01/23/2010

Julie Calloway
Notary Public
My Commission Expires:

Inst:2006006063 Date:03/13/2006 Time:13:23
Doc Stamp-Deed : 315.00
DC,P.DeWitt Cason,Columbia County B:1075 P:2688

SCHEDULE A TO WARRANTY DEED

BOSTON to MANGRUM CONSTRUCTION, INC.

(Lot 7, Barwick West, unrecorded)

TOWNSHIP 4 SOUTH, RANGE 16 EAST

Section 7: Commence at the Southwest corner of the East 1/2 of the SE 1/4 and run N 01 deg. 36' 26" W 662.91 feet to the point of beginning; thence continue N 01 deg. 36' 26" W 220.97 feet; thence N 88 deg. 50' 31 E 580.80 feet; thence S 01 deg. 36' 26" E 220.97 feet; thence S 88 deg. 50' 31" W 580.80 feet to the point of beginning. Lying in Columbia County, Florida.

Inst:2006006063 Date:03/13/2006 Time:13:23
Doc Stamp-Deed : 315.00
DC,P.DeWitt Cason,Columbia County B:1076 P:2689

Pat Lynch
LYNCH DRILLING Corp.
P. O. BOX 934
Branford, FL 32008-0934
(386) 935-1076

Mangrum Construction
P.O. Box 2103
Lake City, FL 32056-2103

DATE: 5-24-06

4" Water well complete with 4" black water well steel casing, 1HP submersible pump (20 gpm) with 1 ¼" galvanized drop pipe, and 81 gallon captive air tank (21.9 gallon drawdown) (maximum 100 feet included) ....

Well will be complete at the well site. We do not include electrical nor plumbing connections from the well to the home and/or power pole.

Prices on estimates are subject to change, if estimate is over 30 days old, unless specific arrangements are made to extend limit. Estimated depths are available upon request and after review of the specified location.

THANK YOU!

Seller shall retain title to the described merchandise until such merchandise has been paid for by the buyer, however, buyer shall have the right to use, display, move, purpose, or otherwise deal with the merchandise solely in connection with the sale of such merchandise to buyers in the ordinary course of business. The merchandise delivered hereby is to be paid for upon delivery and if not paid for within thirty (30) days after receipt, interest and service charges shall accrue at the rate of 1 ½% per month; this charge is equivalent to an interest rate of 18% per annum from the date of receipt. In the event it shall become necessary for seller to collect the purchase price, or any part thereof, buyer agrees to pay to seller all of the cost of collection including reasonable attorney's fees and all incidental damages suffered by the seller. The buyer shall have five (5) days after receipt to notify seller of any defects or shortages in the merchandise. If buyer has not so notified seller within such five-day period such rights shall have waived and such merchandise shall be deemed to have been received in good condition. Seller warrants that the merchandise is merchantable and free from defects in material and workmanship. Seller makes no other express or implied warranties and does not warrant that the merchandise is fit for any particular purpose. Buyer further agrees that the site of this contract and place for payment is Suwannee County, Florida. The buyer acknowledges acceptance of the above-stated items and conditions if this sale by his receipt and retention for five days the merchandise shipped or delivered by the seller.

NOT RESPONSIBLE FOR QUALITY OF WATER

roperty ID Number 07 4S 16 02808.025

ubdivision Name Barwick West (Unrecorded) Lot 7 Block ____ Unit ____ Phase ____

riving Directions US 90 W to Pinemount Rd go SW to Barwick Rd, Turn Left
to Parker Rd turn Right go to Mollie Ter turn Left Lot's #6 #7 & #8
500 yards on the right.

911 Address: 386 SW Mollie Ter.
Lake City, FL 32024

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**mangrum-ryan model**	Builder:	
Address:	**Lot: , Sub: , Plat:**	Permitting Office:	
City, State:	**,**	Permit Number:	
Owner:	**mangrum construction**	Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 32.6 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1438 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 175.3 ft²	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
b. SHGC:			HSPF: 8.00
(or Clear or Tint DEFAULT)	7b. (Clear) 175.3 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 196.7(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Concrete, Int Insul, Exterior	R=5.0, 1770.3 ft²		EF: 0.92
b. Frame, Wood, Adjacent	R=11.0, 260.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 1438.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 106.4 ft		
b. N/A			

Glass/Floor Area: 0.12	Total as-built points: 24391 Total base points: 25028	PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: _____

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1438.0	20.04	5187.2	Double, Clear	SE	1.5	6.0	50.0	42.75	0.88	1888.3	
				Double, Clear	SW	1.5	6.0	43.3	40.16	0.89	1539.0	
				Double, Clear	NE	1.5	6.0	15.0	29.56	0.92	408.1	
				Double, Clear	NE	1.5	8.0	42.0	29.56	0.96	1191.6	
				Double, Clear	NW	1.5	6.0	25.0	25.97	0.93	600.9	
				As-Built Total:				**175.3**			**5628.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Exterior	1770.3	1.70	3009.5	Concrete, Int Insul, Exterior			5.0	1770.3	1.00		1770.3	
Adjacent	260.0	0.70	182.0	Frame, Wood, Adjacent			11.0	260.0	0.70		182.0	
Base Total:	**2030.3**		**3191.5**	**As-Built Total:**				**2030.3**			**1952.3**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Exterior	21.0	4.10	86.1	Exterior Wood				21.0	6.10		128.1	
Adjacent	0.0	0.00	0.0									
Base Total:	**21.0**		**86.1**	**As-Built Total:**				**21.0**			**128.1**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1438.0	1.73	2487.7	Under Attic			30.0	1438.0	1.73 X 1.00		2487.7	
Base Total:	**1438.0**		**2487.7**	**As-Built Total:**				**1438.0**			**2487.7**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	196.7(p)	-37.0	-7277.9	Slab-On-Grade Edge Insulation			0.0	196.7(p	-41.20		-8104.0	
Raised	0.0	0.00	0.0									
Base Total:			**-7277.9**	**As-Built Total:**				**196.7**			**-8104.0**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1438.0	10.21	14682.0					1438.0	10.21		14682.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,**	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 18356.6			**Summer As-Built Points:**					**16774.1**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 32600 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			16774	1.00	(1.09 x 1.147 x 1.00)	0.263	1.000	5505.8
18356.6	**0.4266**	**7830.9**	**16774.1**	**1.00**	**1.250**	**0.263**	**1.000**	**5505.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1438.0	12.74	3297.6	Double, Clear	SE	1.5	6.0	50.0	14.71	1.10	806.1	
				Double, Clear	SW	1.5	6.0	43.3	16.74	1.06	768.4	
				Double, Clear	NE	1.5	6.0	15.0	23.57	1.01	355.8	
				Double, Clear	NE	1.5	8.0	42.0	23.57	1.00	991.9	
				Double, Clear	NW	1.5	6.0	25.0	24.30	1.00	609.3	
				As-Built Total:				**175.3**			**3531.5**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Exterior	1770.3	3.70	6550.1	Concrete, Int Insul, Exterior			5.0	1770.3	5.70		10090.7	
Adjacent	260.0	3.60	936.0	Frame, Wood, Adjacent			11.0	260.0	3.60		936.0	
Base Total:	**2030.3**		**7486.1**	**As-Built Total:**				**2030.3**			**11026.7**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Exterior	21.0	8.40	176.4	Exterior Wood				21.0	12.30		258.3	
Adjacent	0.0	0.00	0.0									
Base Total:	**21.0**		**176.4**	**As-Built Total:**				**21.0**			**258.3**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1438.0	2.05	2947.9	Under Attic			30.0	1438.0	2.05 X	1.00	2947.9	
Base Total:	**1438.0**		**2947.9**	**As-Built Total:**				**1438.0**			**2947.9**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	196.7(p)	8.9	1750.6	Slab-On-Grade Edge Insulation			0.0	196.7(p	18.80		3698.0	
Raised	0.0	0.00	0.0									
Base Total:			**1750.6**	**As-Built Total:**				**196.7**			**3698.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1438.0	-0.59	-848.4					1438.0	-0.59		-848.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**14810.2**	**Winter As-Built Points:**					**20614.0**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 35000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			20614.0	1.000	(1.069 x 1.169 x 1.00)	0.426	1.000	10980.4
14810.2	**0.6274**	**9291.9**	**20614.0**	**1.00**	**1.250**	**0.426**	**1.000**	**10980.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	40.0	0.92	3	1.00	2635.00	1.00	7905.0	
				As-Built Total:						**7905.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
7831	**9292**	**7905**	**25028**	**5506**	**10980**	**7905**	**24391**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

mangrum construction, Lot: , Sub: , Plat: , , ,

1.	New construction or existing	New		12.	Cooling systems
2.	Single family or multi-family	Single family		a.	Central Unit	Cap: 32.6 kBtu/hr	
3.	Number of units, if multi-family	1				SEER: 13.00	
4.	Number of Bedrooms	3		b.	N/A		
5.	Is this a worst case?	Yes					
6.	Conditioned floor area (ft²)	1438 ft²		c.	N/A		
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)						
a.	U-factor:	Description Area		13.	Heating systems		
	(or Single or Double DEFAULT)	7a. (Dble Default) 175.3 ft²		a.	Electric Heat Pump	Cap: 35.0 kBtu/hr	
b.	SHGC:					HSPF: 8.00	
	(or Clear or Tint DEFAULT)	7b. (Clear) 175.3 ft²		b.	N/A		
8.	Floor types						
a.	Slab-On-Grade Edge Insulation	R=0.0, 196.7(p) ft		c.	N/A		
b.	N/A						
c.	N/A			14.	Hot water systems		
9.	Wall types			a.	Electric Resistance	Cap: 40.0 gallons	
a.	Concrete, Int Insul, Exterior	R=5.0, 1770.3 ft²				EF: 0.92	
b.	Frame, Wood, Adjacent	R=11.0, 260.0 ft²		b.	N/A		
c.	N/A						
d.	N/A			c.	Conservation credits		
e.	N/A				(HR-Heat recovery, Solar		
10.	Ceiling types				DHP-Dedicated heat pump)		
a.	Under Attic	R=30.0, 1438.0 ft²		15.	HVAC credits		
b.	N/A				(CF-Ceiling fan, CV-Cross ventilation,		
c.	N/A				HF-Whole house fan,		
11.	Ducts				PT-Programmable Thermostat,		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 106.4 ft			MZ-C-Multizone cooling,		
b.	N/A				MZ-H-Multizone heating)		

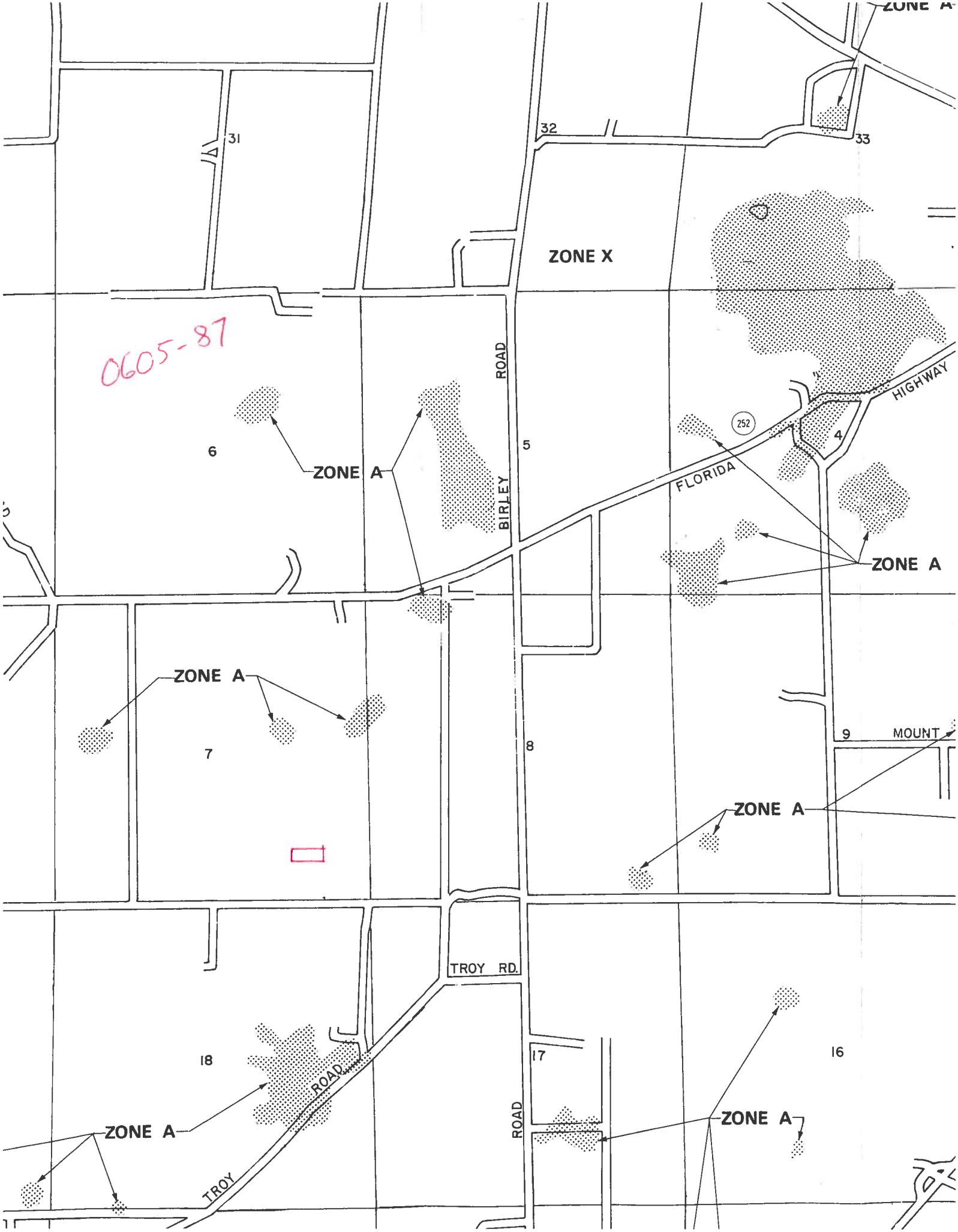
I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.


ZONE A
31
32
33
ZONE X
0605-87
ROAD
BIRLEY
6
ZONE A
5
FLORIDA
252
4
HIGHWAY
ZONE A
ZONE A
7
8
9
MOUNT
ZONE A
TROY RD.
18
ROAD
17
16
ZONE A
ZONE A
TROY
ROAD

STATE OF FLORIDA
DEPARTMENT OF HEALTH

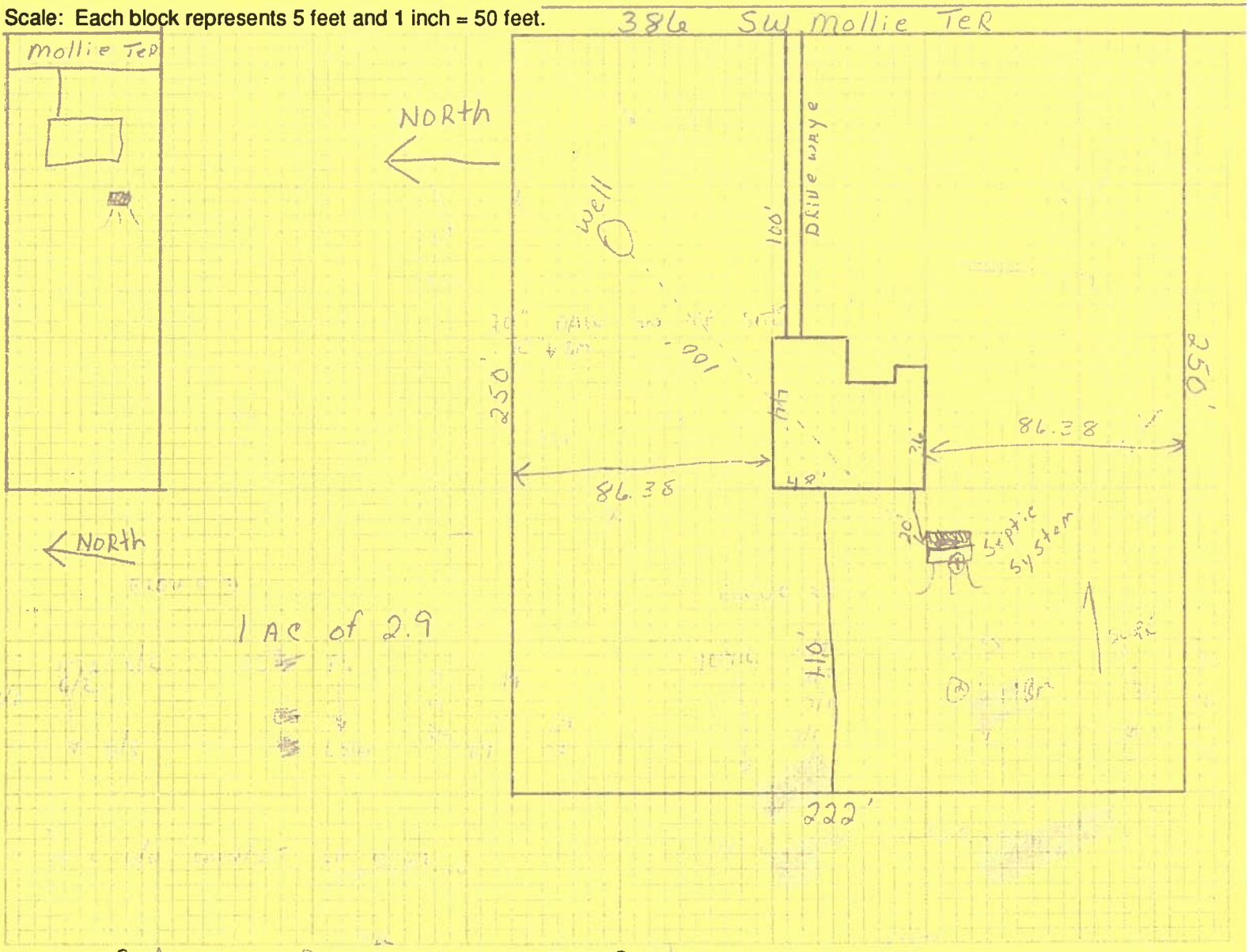
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

0506N

Permit Application Number 06-[redacted]

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: Lot 7 Barwick West Subdivision

Site Plan submitted by: Debra Bowden
Signature

Office Manager
Title

Plan Approved X

Not Approved _____

Date 5-24-06
5/30/06

By _____

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

.ocation:_____ **Project Name:**_____

.s required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)			
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # **(FOR STAFF USE ONLY)**

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS; Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation

☐ N/A ☐ d) Location, size and height above roof of chimneys.
☐ N/A ☐ e) Location and size of skylights
☑ ☐ f) Building height
☑ ☐ e) Number of stories

Floor Plan including:

☑ ☐ a) Rooms labeled and dimensioned.
☐ B/P ☐ b) Shear walls identified.
☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☑ ☐ d) Show safety glazing of glass, where required by code.
☑ ☐ e) Identify egress windows in bedrooms, and size.
☐ N/A ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ N/A ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☑ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

☑ ☐ a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
☑ ☐ b) All posts and/or column footing including size and reinforcing
☐ N/A ☐ c) Any special support required by soil analysis such as piling
☐ N/A ☐ d) Location of any vertical steel.

Roof System:

☑ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☑ B/P ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☑ B/P ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☑ B/P ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☑ N/A ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☐ N/A ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ N/A ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ Slab ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☐ ☐ **Plumbing Fixture layout**

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

☑ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☑ ☐ h) Exhaust fans in bathroom

HVAC information

☑ ☐ a) Energy Calculations (dimensions shall match plans)

☑ ☐ b) Manual J sizing equipment or equivalent computation

☐ N/A ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☑ ☐ **Disclosure Statement for Owner Builders**

☑ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done

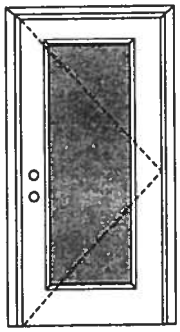
☑ ☐ **Private Potable Water**

X
Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


136 Series


680 Series


822 Series

1/2 GLASS:


105 Series*

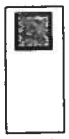

106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series

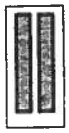

410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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June 17, 2002
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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft^2
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

ALLEN M. REEVES
CERTIFICATE
NO. 18354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen M. Reeves
1 APRIL 2002

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen M. Reeves
1 APRIL 2002

REEVES NO. 19354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
NO. 19[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft^2	0.3 cfm/ft^2 max

***Note #1:** The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen N. Reeves
1 APRIL 2002

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NO. 1337
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987)		
	In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

Allen N. Reeves
1 APRIL 2002

LEN N. REEVES
CERTIFICATE NO. 19334
STATE OF FLORIDA
PROFESSIONAL ENGINEER

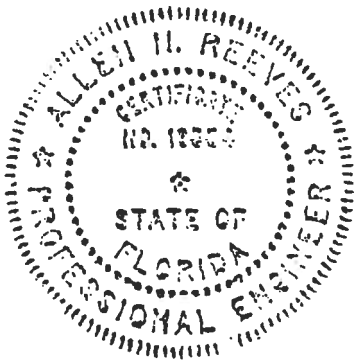
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:nlb
01-41134.01



GLENN I. JONES, INC. COOLING & HEATING SPECIALISTS

Project Summary
Entire House

Job: ryan model
Date: May 15, 2006
By: Louis Weeks

Application # 0605-87

Project Information

For: Mangrum Construction, Inc.
P.O. Box 2103, Lake City, Fl 32056-2103
Phone: 386-752-6399 Fax: 386-752-6369

Notes: This is a test

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	19685 Btuh
Ducts	5673 Btuh
Central vent (103 cfm)	4176 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	29534 Btuh

Sensible Cooling Equipment Load Sizing

Structure	14528 Btuh
Ducts	7058 Btuh
Central vent (103 cfm)	1919 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	22799 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	1438	1438
Volume (ft³)	12630	12630
Air changes/hour	0.16	0.08
Equiv. AVF (cfm)	34	17

Latent Cooling Equipment Load Sizing

Structure	1792 Btuh
Ducts	1688 Btuh
Central vent (103 cfm)	3627 Btuh
Equipment latent load	7107 Btuh
Equipment total load	29906 Btuh
Req. total capacity at 0.70 SHR	2.7 ton

Heating Equipment Summary

Make Carrier
Trade Comfort 12 Heat Pump
Model 38YRA03632

Efficiency	7.3 HSPF
Heating input	
Heating output	35000 Btuh @ 47°F
Temperature rise	29 °F
Actual air flow	1087 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	

Cooling Equipment Summary

Make Carrier
Trade Comfort 12 Heat Pump
Cond 38YRA03632
Coil CE3AXA036000

Efficiency	13 SEER
Sensible cooling	22820 Btuh
Latent cooling	9780 Btuh
Total cooling	32600 Btuh
Actual air flow	1087 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.77

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**mangrum-ryan model**	Builder:	
Address:	**Lot: , Sub: , Plat:**	Permitting Office:	
City, State:	**,**	Permit Number:	
Owner:	**mangrum construction**	Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 32.6 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1438 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 175.3 ft²	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
b. SHGC:			HSPF: 8.00
(or Clear or Tint DEFAULT)	7b. (Clear) 175.3 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 196.7(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Concrete, Int Insul, Exterior	R=5.0, 1770.3 ft²		EF: 0.92
b. Frame, Wood, Adjacent	R=11.0, 260.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 1438.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 106.4 ft		
b. N/A			

Glass/Floor Area: 0.12

Total as-built points: 24391
Total base points: 25028

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: _____

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1438.0	20.04	5187.2	Double, Clear	SE	1.5	6.0	50.0	42.75	0.88	1888.3	
				Double, Clear	SW	1.5	6.0	43.3	40.16	0.89	1539.0	
				Double, Clear	NE	1.5	6.0	15.0	29.56	0.92	408.1	
				Double, Clear	NE	1.5	8.0	42.0	29.56	0.96	1191.6	
				Double, Clear	NW	1.5	6.0	25.0	25.97	0.93	600.9	
				As-Built Total:				**175.3**			**5628.0**	
WALL TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Exterior	1770.3	1.70	3009.5	Concrete, Int Insul, Exterior			5.0	1770.3	1.00		1770.3	
Adjacent	260.0	0.70	182.0	Frame, Wood, Adjacent			11.0	260.0	0.70		182.0	
Base Total:	**2030.3**		**3191.5**	**As-Built Total:**				**2030.3**			**1952.3**	
DOOR TYPES	Area X	BSPM	= Points	Type				Area X	SPM	=	Points	
Exterior	21.0	4.10	86.1	Exterior Wood				21.0	6.10		128.1	
Adjacent	0.0	0.00	0.0									
Base Total:	**21.0**		**86.1**	**As-Built Total:**				**21.0**			**128.1**	
CEILING TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM X SCM	=	Points	
Under Attic	1438.0	1.73	2487.7	Under Attic			30.0	1438.0	1.73 X 1.00		2487.7	
Base Total:	**1438.0**		**2487.7**	**As-Built Total:**				**1438.0**			**2487.7**	
FLOOR TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Slab	196.7(p)	-37.0	-7277.9	Slab-On-Grade Edge Insulation			0.0	196.7(p	-41.20		-8104.0	
Raised	0.0	0.00	0.0									
Base Total:			**-7277.9**	**As-Built Total:**				**196.7**			**-8104.0**	
INFILTRATION	Area X	BSPM	= Points					Area X	SPM	=	Points	
	1438.0	10.21	14682.0					1438.0	10.21		14682.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 18356.6			**Summer As-Built Points:**					**16774.1**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 32600 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			16774	1.00	(1.09 x 1.147 x 1.00)	0.263	1.000	5505.8
18356.6	**0.4266**	**7830.9**	**16774.1**	**1.00**	**1.250**	**0.263**	**1.000**	**5505.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1438.0	12.74	3297.6	Double, Clear	SE	1.5	6.0	50.0	14.71	1.10	806.1	
				Double, Clear	SW	1.5	6.0	43.3	16.74	1.06	768.4	
				Double, Clear	NE	1.5	6.0	15.0	23.57	1.01	355.8	
				Double, Clear	NE	1.5	8.0	42.0	23.57	1.00	991.9	
				Double, Clear	NW	1.5	6.0	25.0	24.30	1.00	609.3	
				As-Built Total:				**175.3**			**3531.5**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Exterior	1770.3	3.70	6550.1	Concrete, Int Insul, Exterior			5.0	1770.3	5.70		10090.7	
Adjacent	260.0	3.60	936.0	Frame, Wood, Adjacent			11.0	260.0	3.60		936.0	
Base Total:	**2030.3**		**7486.1**	**As-Built Total:**				**2030.3**			**11026.7**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Exterior	21.0	8.40	176.4	Exterior Wood				21.0	12.30		258.3	
Adjacent	0.0	0.00	0.0									
Base Total:	**21.0**		**176.4**	**As-Built Total:**				**21.0**			**258.3**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points	
Under Attic	1438.0	2.05	2947.9	Under Attic			30.0	1438.0	2.05 X 1.00		2947.9	
Base Total:	**1438.0**		**2947.9**	**As-Built Total:**				**1438.0**			**2947.9**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	196.7(p)	8.9	1750.6	Slab-On-Grade Edge Insulation			0.0	196.7(p	18.80		3698.0	
Raised	0.0	0.00	0.0									
Base Total:			**1750.6**	**As-Built Total:**				**196.7**			**3698.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1438.0	-0.59	-848.4					1438.0	-0.59		-848.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**14810.2**	**Winter As-Built Points:**					**20614.0**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 35000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			20614.0	1.000	(1.069 x 1.169 x 1.00)	0.426	1.000	10980.4
14810.2	**0.6274**	**9291.9**	**20614.0**	**1.00**	**1.250**	**0.426**	**1.000**	**10980.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	40.0	0.92	3	1.00	2635.00	1.00	7905.0	
				As-Built Total:						**7905.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
7831	**9292**	**7905**	**25028**	**5506**	**10980**	**7905**	**24391**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: , Plat: , , ,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

mangrum construction, Lot: , Sub: , Plat: , , ,

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	1438 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default) Area 175.3 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 175.3 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 196.7(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Concrete, Int Insul, Exterior	R=5.0, 1770.3 ft²	
b.	Frame, Wood, Adjacent	R=11.0, 260.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1438.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 106.4 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 32.6 kBtu/hr	
		SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 35.0 kBtu/hr	
		HSPF: 8.00	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons	
		EF: 0.92	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

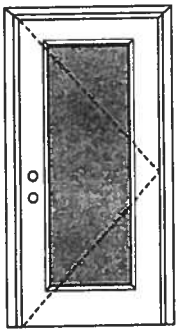
1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

X
Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etisemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02 and MAD-WL-MA0041-02.

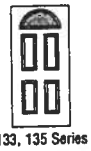
MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series

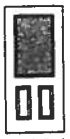

136 Series


680 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series

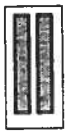

410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft^2
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

ALLEN M. REEVES CERTIFICATE NO. 18354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen M. Reeves
1 APRIL 2002

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen M. Reeves
1 APRIL 2002

ALLEN M. REEVES
NO. 19354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
NO. 19[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft^2	0.3 cfm/ft^2 max

Note #1: *The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
NO. 1837
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

Exceeds L/175 for deflection, but passes all other test requirements.

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE NO. 19334
STATE OF FLORIDA
PROFESSIONAL ENGINEER

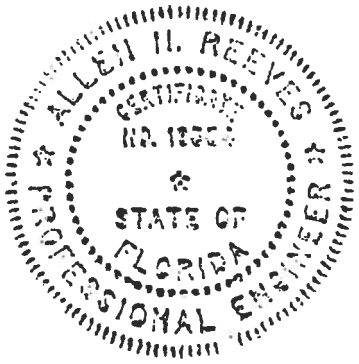
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:nlb
01-41134.01



Project Information for:	L159972		
Builder:	MANGRUM	Date:	4/19/2006
Lot:	LOT 7 BAYWICK WEST	Start Number:	**1395**
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	27		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6.2

Gravity		**Wind**		**Building Code:**	**FBC2004**
Roof (psf):	**42**	Wind Standard:	**ASCE 7-02**		
Floor (psf):	55	Wind Speed (mph):	**110**		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

MANGRUM, DAVID E RB29003100
Address: 634 SE MAYHALL TERRACE
LAKE CITY, FL 32025 Designer: **85**

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0419061395	4/19/2006				
2	CJ2	0419061396	4/19/2006				
3	CJ3	0419061397	4/19/2006				
4	CJ5	0419061398	4/19/2006				
5	EJ5	0419061399	4/19/2006				
6	EJ7	0419061400	4/19/2006				
7	EJ7A	0419061401	4/19/2006				
8	HJ7	0419061402	4/19/2006				
9	HJ9	0419061403	4/19/2006				
10	T01	0419061404	4/19/2006				
11	T02	0419061405	4/19/2006				
12	T03	0419061406	4/19/2006				
13	T04	0419061407	4/19/2006				
14	T05	0419061408	4/19/2006				
15	T06	0419061409	4/19/2006				
16	T07	0419061410	4/19/2006				
17	T09	0419061411	4/19/2006				
18	T10	0419061412	4/19/2006				
19	T11	0419061413	4/19/2006				
20	T12	0419061414	4/19/2006				
21	T13	0419061415	4/19/2006				
22	T14	0419061416	4/19/2006				
23	T15	0419061417	4/19/2006				
24	T16	0419061418	4/19/2006				
25	T17	0419061419	4/19/2006				
26	T18	0419061420	4/19/2006				
27	T19	0419061421	4/19/2006				

APR 19 2006

Dwg.#0419061394

Licensee Details

Licensee Information

Name:	**MANGRUM, DAVID EARL (Primary Name)**
	MANGRUM CONSTRUCTION INC (DBA Name)
Main Address:	**634 S.E. MAYHALL TERR.**
	LAKE CITY Florida 32025
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	

License Information

License Type:	**Registered Building Contractor**
Rank:	**Reg Building**
License Number:	**RB29003100**
Status:	**Current,Active**
Licensure Date:	**07/22/2002**
Expires:	**08/31/2007**

Special Qualifications	**Qualification Effective**
Bldg Code Core Course Credit	
Qualified Business License Required	**02/20/2004**

View Related License Information
View License Complaint

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061395

Job	Truss	Truss Type	Qty	Ply	
L159972	CJ1	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:13 2006 Page 1

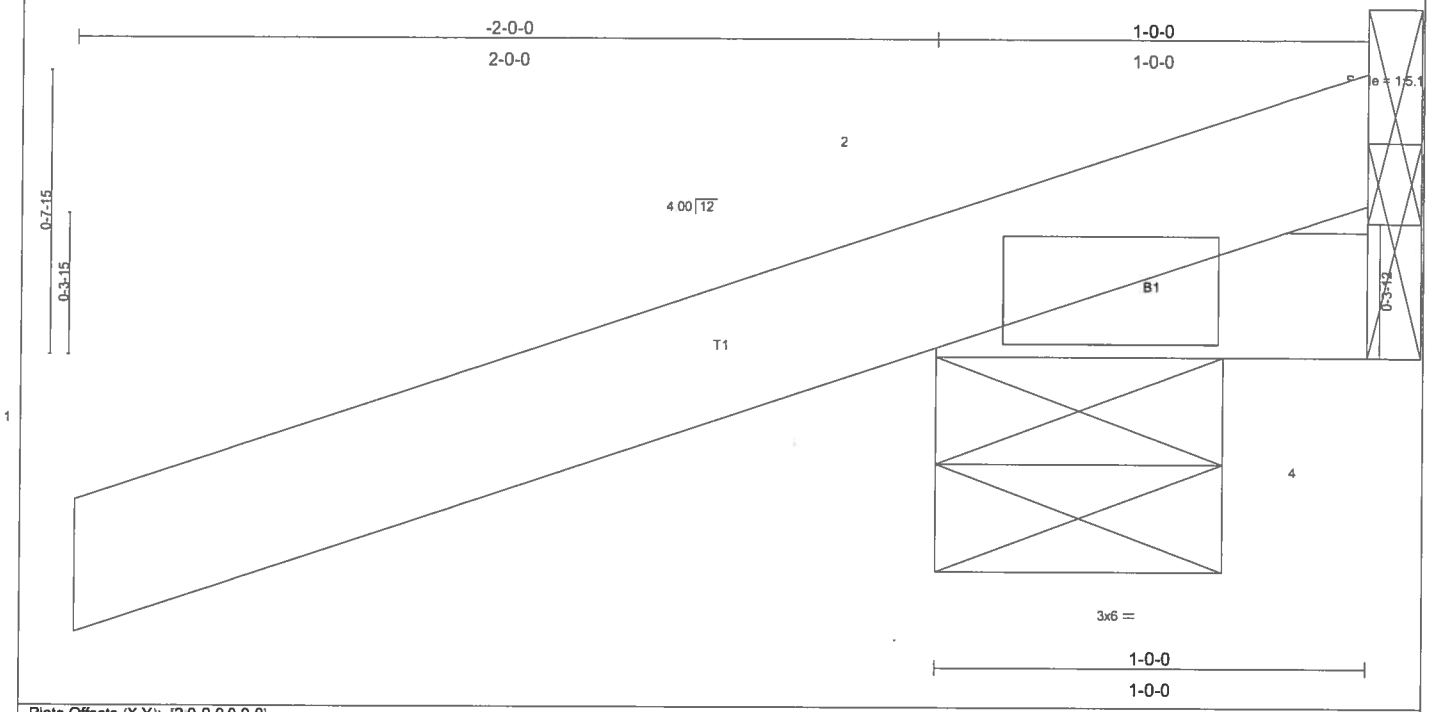


Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 6 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=276/0-8-0, 3=-100/Mechanical, 4=14/Mechanical
Max Horz 2=58(load case 3)
Max Uplift2=-272(load case 3), 3=-100(load case 1)
Max Grav 2=276(load case 1), 3=124(load case 3), 4=14(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-54/55
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 2 and 100 lb uplift at joint 3.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061396

Job	Truss	Truss Type	Qty	Ply	
L159972	CJ2	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:13 2006 Page 1

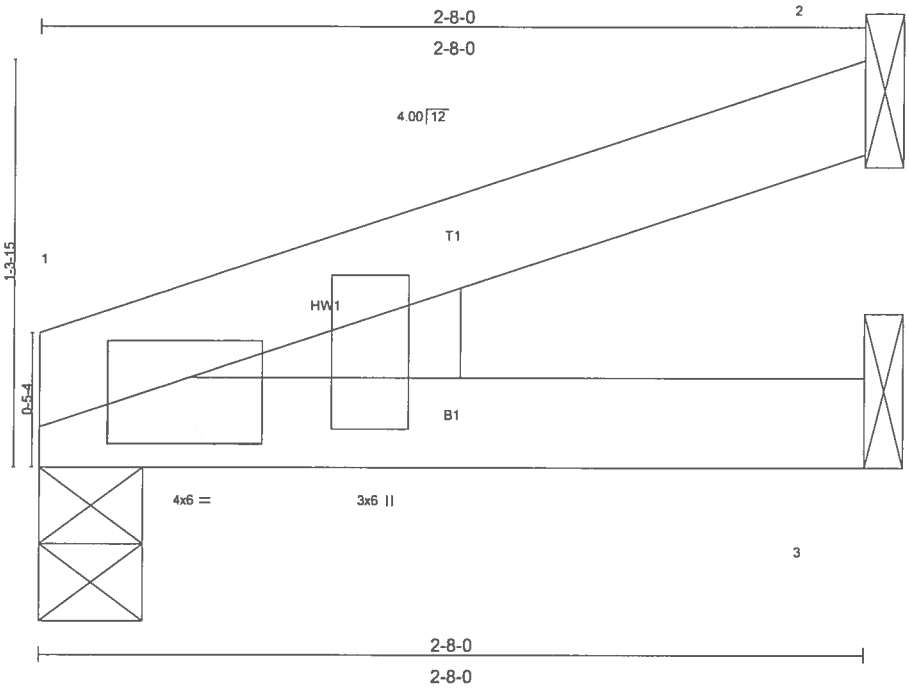


Plate Offsets (X,Y): [1:0-2-10,0-0-10], [1:0-0-1,0-11-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.08	Vert(LL)	-0.00	1-3	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	1-3	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 10 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=66/Mechanical, 3=37/Mechanical, 1=102/0-4-0
Max Horz 1=46(load case 3)
Max Uplift2=-56(load case 3), 1=-29(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-41/20
BOT CHORD 1-3=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2 and 29 lb uplift at joint 1.

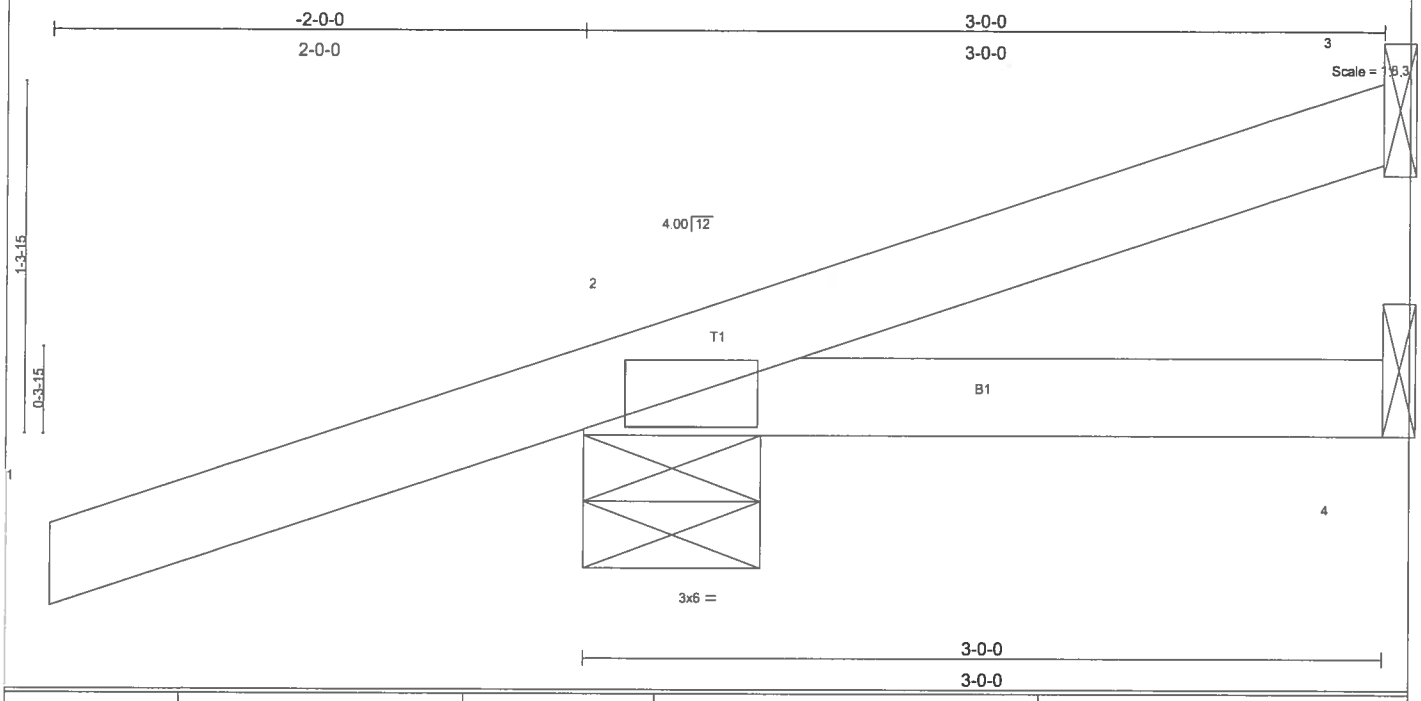
LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061397

Job	Truss	Truss Type	Qty	Ply	
L159972	CJ3	JACK	11	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:14 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.00	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 12 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=14/Mechanical, 2=292/0-8-0, 4=39/Mechanical
Max Horz 2=88(load case 3)
Max Uplift3=-17(load case 6), 2=-227(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-46/4
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 3 and 227 lb uplift at joint 2.

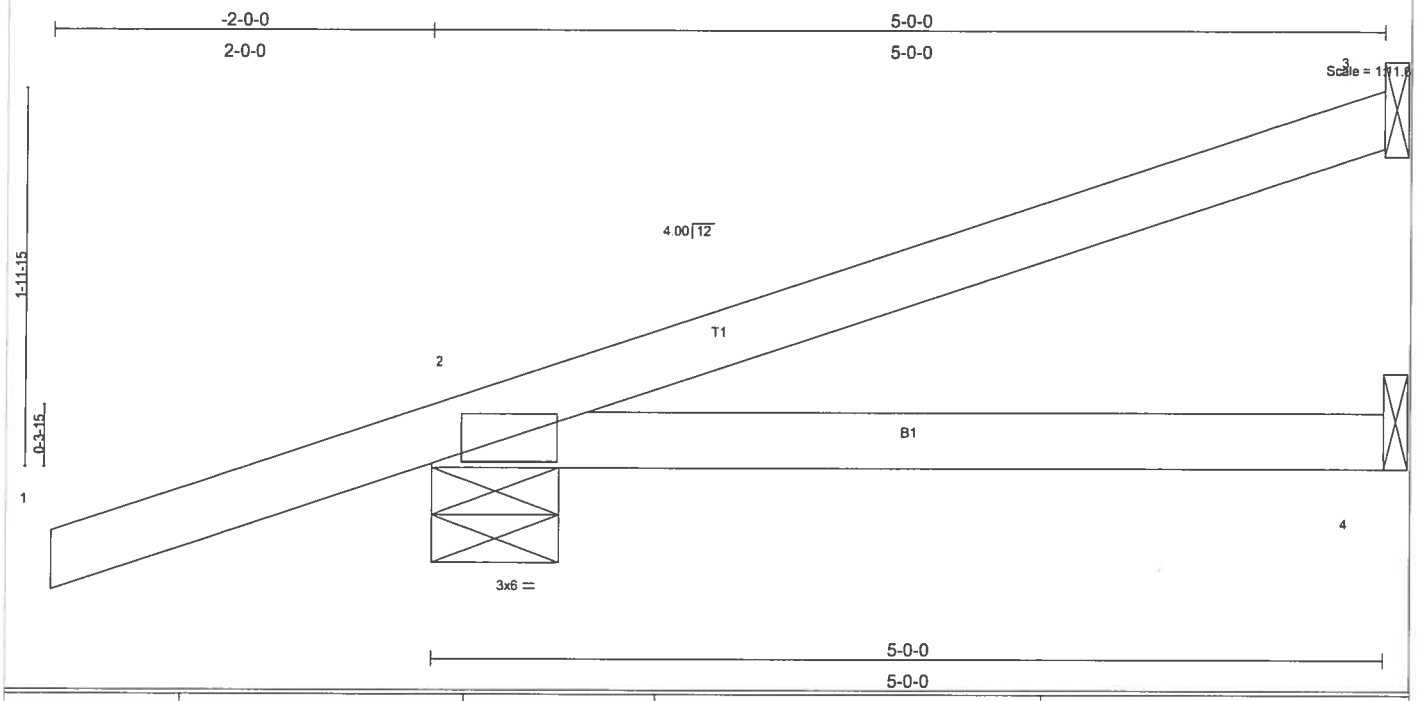
LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061398

Job	Truss	Truss Type	Qty	Ply	
L159972	CJ5	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:14 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.04	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=92/Mechanical, 2=351/0-8-0, 4=69/Mechanical
Max Horz 2=118(load case 3)
Max Uplift3=-65(load case 3), 2=-226(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-53/23
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 3 and 226 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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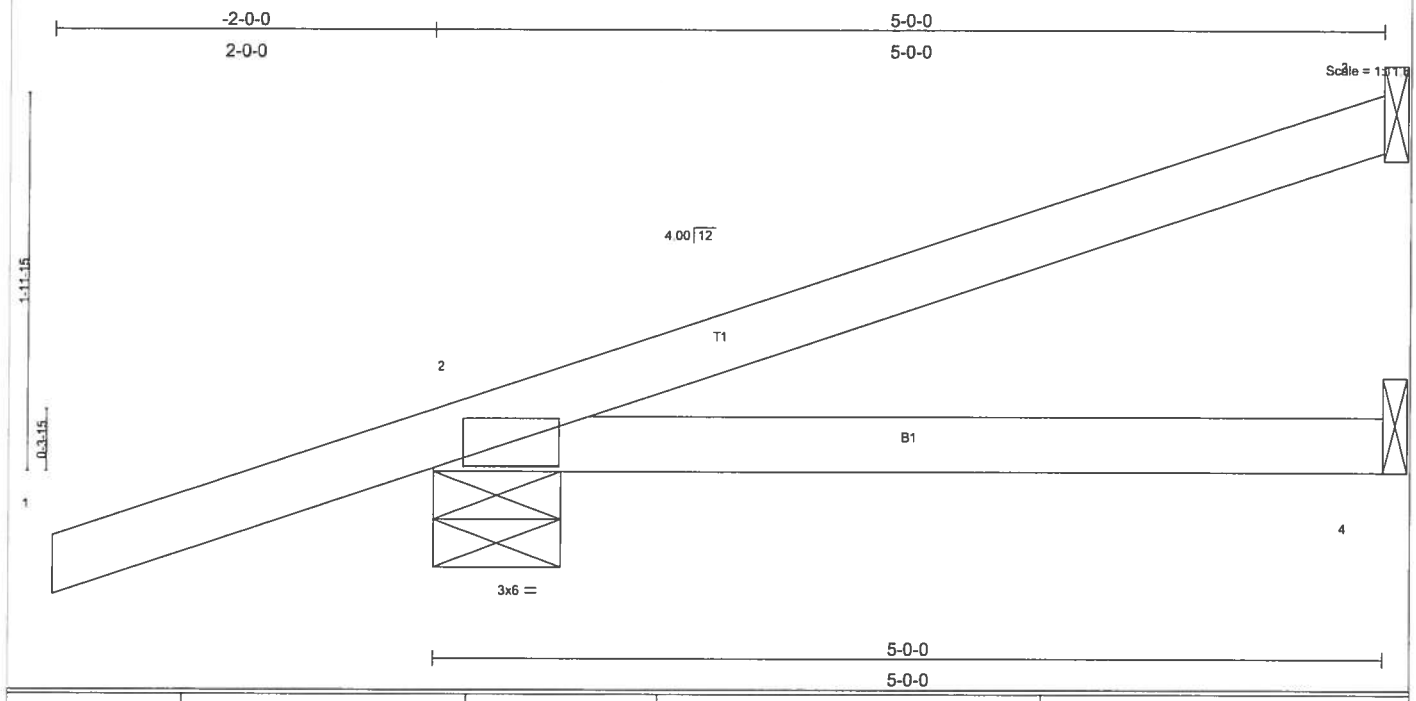
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061399

Job	Truss	Truss Type	Qty	Ply	
L159972	EJ5	MONO TRUSS	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:15 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.04	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=92/Mechanical, 2=351/0-8-0, 4=69/Mechanical
Max Horz 2=118(load case 3)
Max Uplift3=-65(load case 3), 2=-226(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-53/23
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 3 and 226 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061400

Job	Truss	Truss Type	Qty	Ply	
L159972	EJ7	MONO TRUSS	24	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:15 2006 Page 1

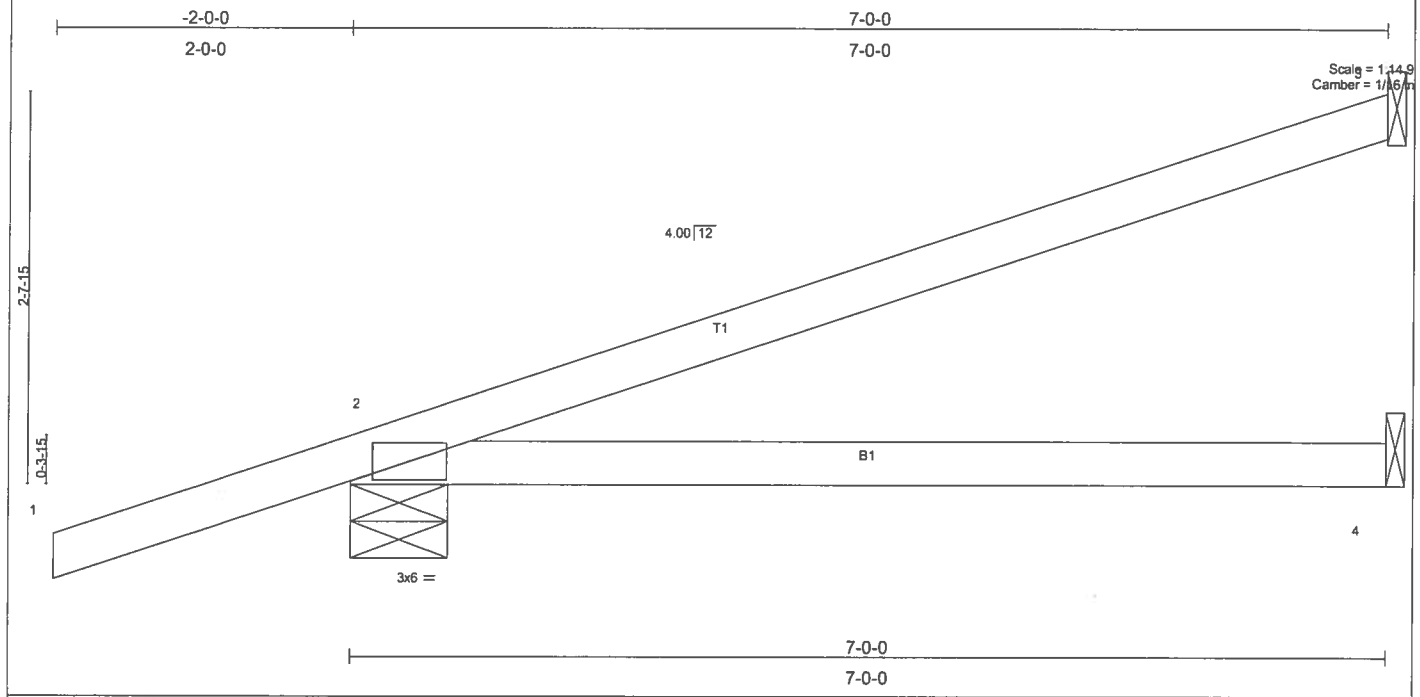

Plate Offsets (X,Y) [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.10	2-4	>780	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.17	2-4	>464	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 25 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=157/Mechanical, 2=426/0-8-0, 4=99/Mechanical
Max Horz 2=149(load case 3)
Max Uplift3=-111(load case 3), 2=-242(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-75/40
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 3 and 242 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061401

Job	Truss	Truss Type	Qty	Ply	
L159972	EJ7A	COMMON	1	1	Job Reference (optional)

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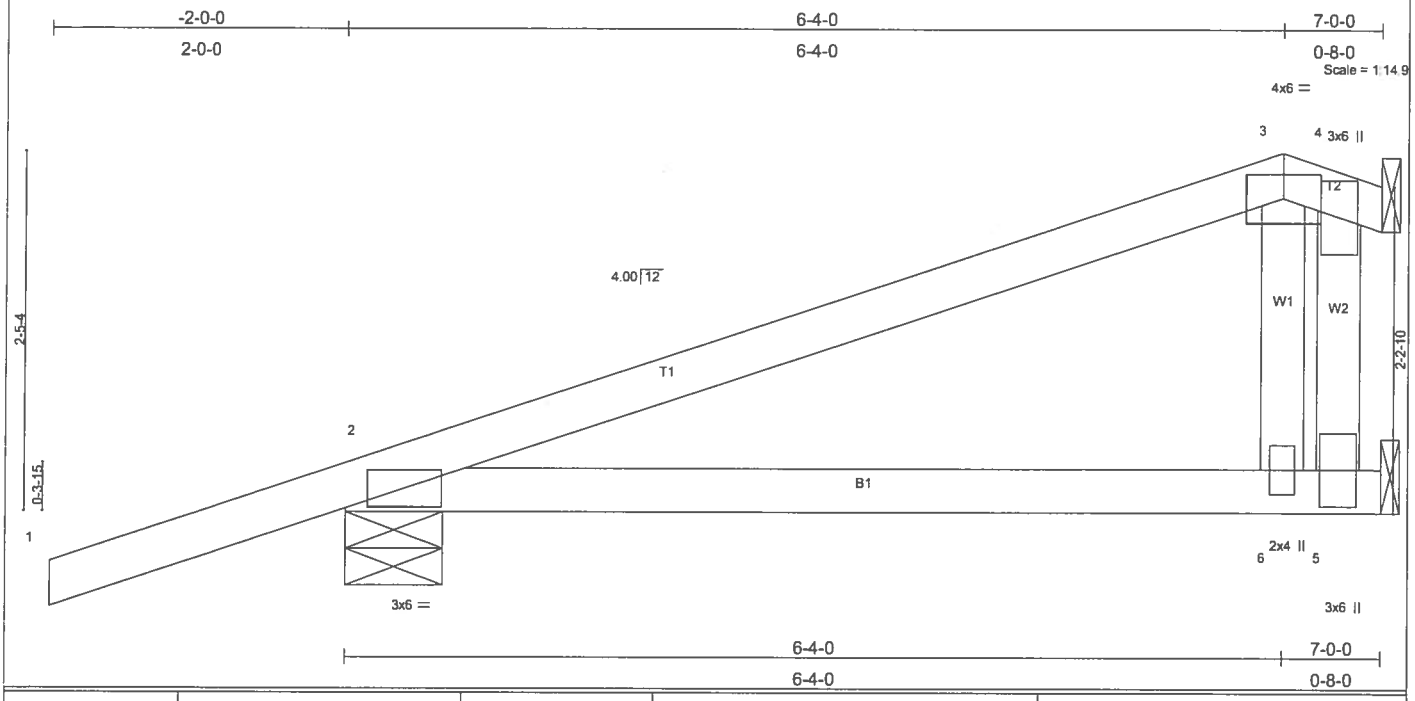

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.04	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.07	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=417/0-8-0, 5=187/Mechanical, 4=58/Mechanical
Max Horz 2=136(load case 3)
Max Uplift2=-243(load case 5), 5=-206(load case 5)
Max Grav 2=417(load case 1), 5=187(load case 1), 4=141(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-198/27, 3-4=-148/23, 4-5=0/0
BOT CHORD 2-6=-75/137, 5-6=-75/137
WEBS 3-6=-79/331

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2 and 206 lb uplift at joint 5.
5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

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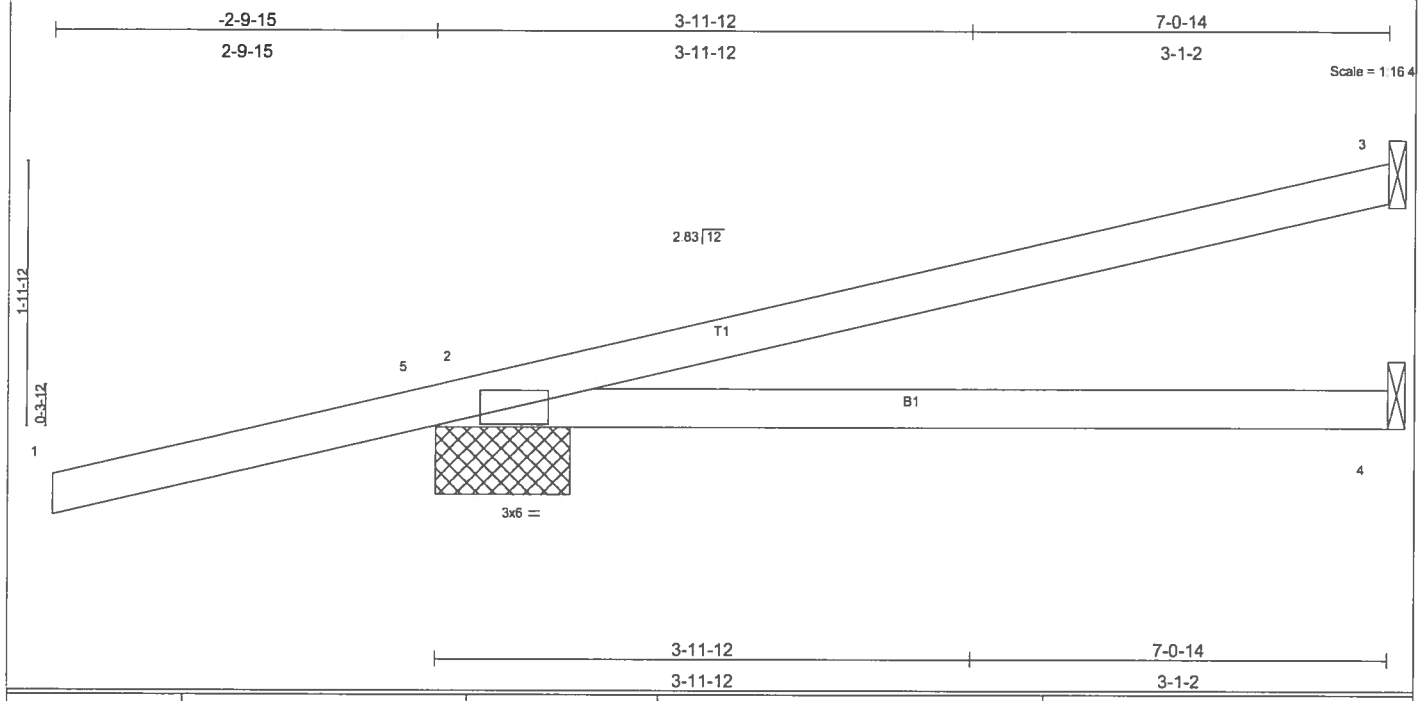
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061402

Job	Truss	Truss Type	Qty	Ply	
L159972	HJ7	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:17 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.07	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.12	2-4	>658	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=189/Mechanical, 2=374/1-0-1, 4=110/Mechanical
Max Horz 2=110(load case 2)
Max Uplift3=-127(load case 2), 2=-262(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=0/31, 2-5=0/31, 2-3=-43/31
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 3 and 262 lb uplift at joint 2.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54
Trapezoidal Loads (plf)
Vert: 5=-0(F=27, B=27)-to-3=-95(F=-21, B=-21), 2=-3(F=14, B=14)-to-4=-53(F=-12, B=-12)

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061403

Job	Truss	Truss Type	Qty	Ply	
L159972	HJ9	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:18 2006 Page 1

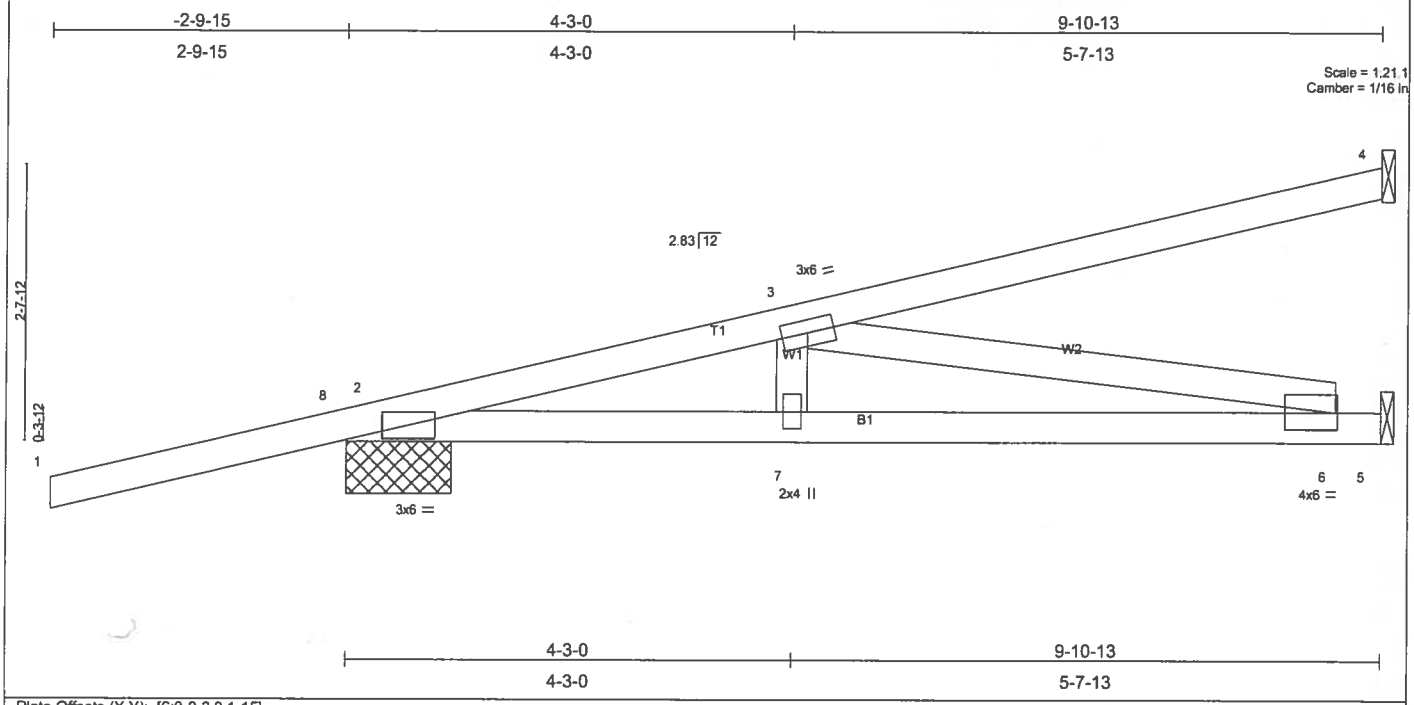

Plate Offsets (X,Y): [6:0-0-3,0-1-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.13	6-7	>876	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.22	6-7	>525	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.62	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS (lb/size) 4=275/Mechanical, 2=533/1-0-1, 5=367/Mechanical
Max Horz 2=175(load case 2)
Max Uplift4=-208(load case 2), 2=-304(load case 2), 5=-45(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=0/31, 2-8=0/31, 2-3=-1203/245, 3-4=-67/46
BOT CHORD 2-7=-363/1156, 6-7=-363/1156, 5-6=0/0
WEBS 3-7=0/179, 3-6=-1178/370

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 4, 304 lb uplift at joint 2 and 45 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-54
Trapezoidal Loads (plf)
Vert: 8=0(F=27, B=27)-to-4=-134(F=-40, B=-40), 2=-3(F=14, B=14)-to-5=-74(F=-22, B=-22)

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

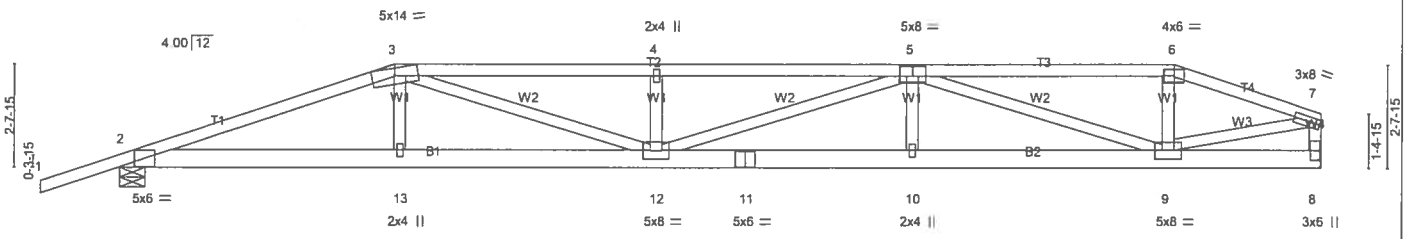
Dwg.#0419061404

Job	Truss	Truss Type	Qty	Ply	
L159972	T01	HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:19 2006 Page 1

-2-0-0 | 7-0-0 | 13-8-9 | 20-3-7 | 27-0-0 | 30-9-0
2-0-0 | 7-0-0 | 6-8-9 | 6-6-13 | 6-8-9 | 3-9-0

Scale = 1:56.6
Camber = 1/4 in



7-0-0 | 13-8-9 | 20-3-7 | 27-0-0 | 30-9-0
7-0-0 | 6-8-9 | 6-6-13 | 6-8-9 | 3-9-0

Plate Offsets (X,Y): [5:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.42	10-12	>857	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.68	10-12	>535	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 338 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-14 oc bracing.

REACTIONS (lb/size) 2=2654/0-8-0, 8=2697/Mechanical
Max Horz 2=47(load case 2)
Max Uplift2=-1167(load case 2), 8=-1092(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-7068/2856, 3-4=-9093/3758, 4-5=-9093/3758, 5-6=-4045/1720, 6-7=-4264/1737, 7-8=-2544/1071
BOT CHORD 2-13=-2646/6641, 12-13=-2656/6696, 11-12=-3329/8297, 10-11=-3329/8297, 9-10=-3329/8297, 8-9=-142/316
WEBS 3-13=-177/877, 3-12=-1098/2657, 4-12=-758/568, 5-12=-343/868, 5-10=0/437, 5-9=-4533/1853, 6-9=-93/747, 7-9=-1512/3832

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1167 lb uplift at joint 2 and 1092 lb uplift at joint 8.
8) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 236 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-113(F=-59), 6-7=-113(F=-59), 2-13=-30, 8-13=-62(F=-33)
Concentrated Loads (lb)
Vert: 13=-539(F)

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

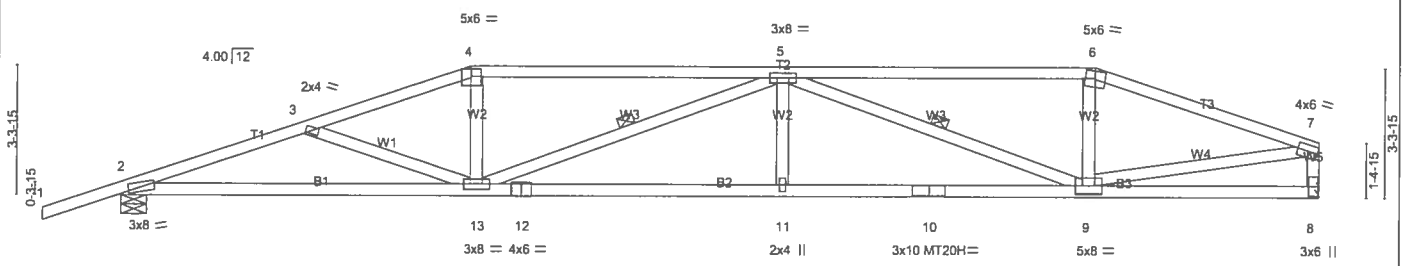
Dwg.#0419061405

Job	Truss	Truss Type	Qty	Ply	
L159972	T02	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:19 2006 Page 1

-2-0-0 | 4-10-14 | 9-0-0 | 17-0-0 | 25-0-0 | 30-9-0
2-0-0 | 4-10-14 | 4-1-2 | 8-0-0 | 8-0-0 | 5-9-0

Scale = 1:56.6
Camber = 3/16 in



9-0-0 | 17-0-0 | 25-0-0 | 30-9-0
9-0-0 | 8-0-0 | 8-0-0 | 5-9-0

Plate Offsets (X,Y): [2:0-2-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.32	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.52	11-13	>697	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.13	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 148 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-2 oc bracing.
WEBS 1 Row at midpt 5-13, 5-9

REACTIONS (lb/size) 2=1402/0-8-0, 8=1267/Mechanical
Max Horz 2=122(load case 3)
Max Uplift2=-606(load case 3), 8=-459(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3031/1216, 3-4=-2837/1125, 4-5=-2702/1114, 5-6=-2042/879, 6-7=-2180/880, 7-8=-1183/522
BOT CHORD 2-13=-1141/2815, 12-13=-1259/3253, 11-12=-1259/3253, 10-11=-1259/3253, 9-10=-1259/3253, 8-9=-96/189
WEBS 3-13=-153/162, 4-13=-78/524, 5-13=-728/301, 5-11=0/232, 5-9=-1375/525, 6-9=-12/349, 7-9=-702/1875

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 606 lb uplift at joint 2 and 459 lb uplift at joint 8.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061406

Job	Truss	Truss Type	Qty	Ply	
L159972	T03	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:20 2006 Page 1

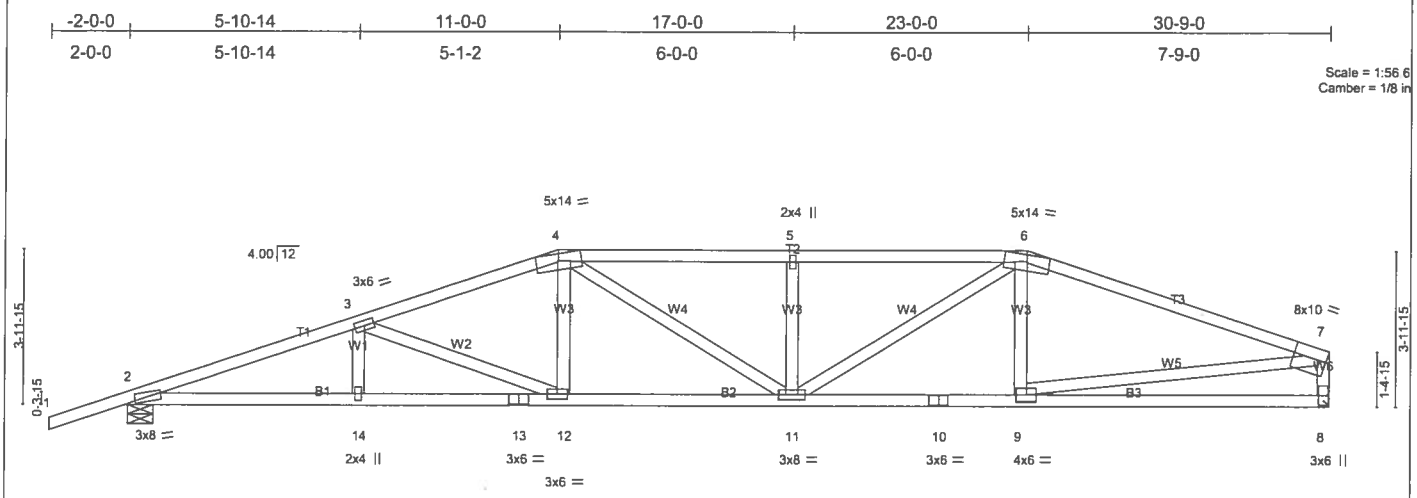


Plate Offsets (X,Y): [2:0-2-9,0-0-7], [7:0-2-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.98	Vert(LL)	-0.25	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.40	11-12	>914	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.10	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 154 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-13 oc bracing.

REACTIONS (lb/size) 2=1402/0-8-0, 8=1267/Mechanical
Max Horz 2=132(load case 3)
Max Uplift2=-599(load case 3), 8=-449(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3119/1211, 3-4=-2569/1070, 4-5=-2608/1128, 5-6=-2608/1128, 6-7=-2212/910, 7-8=-1138/540
BOT CHORD 2-14=-1135/2887, 13-14=-1135/2887, 12-13=-1135/2887, 11-12=-928/2414, 10-11=-782/2032, 9-10=-782/2032, 8-9=-198/413
WEBS 3-14=0/156, 3-12=-531/224, 4-12=-56/369, 4-11=-148/382, 5-11=-338/222, 6-11=-297/793, 6-9=-46/138, 7-9=-596/1639

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 2 and 449 lb uplift at joint 8.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

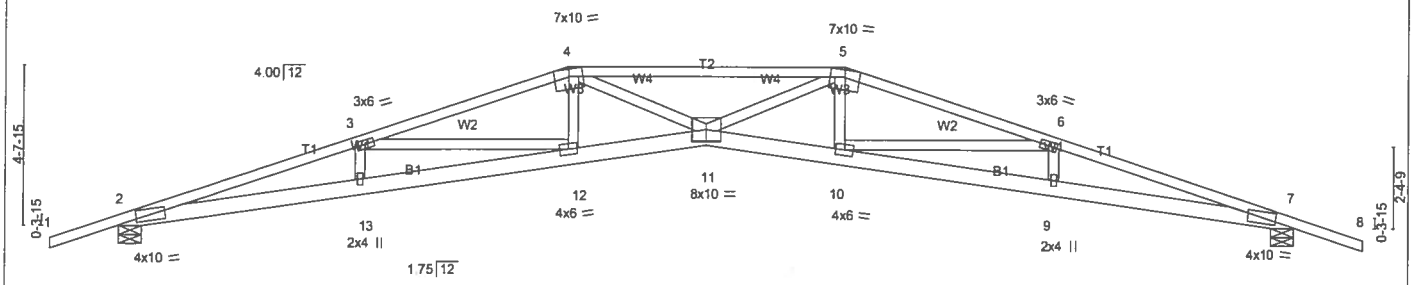
Dwg.#0419061407

Job	Truss	Truss Type	Qty	Ply	
L159972	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:21 2006 Page 1

-2-0-0	6-11-10	13-0-0	21-0-0	27-0-6	34-0-0	36-0-0
2-0-0	6-11-10	6-0-6	8-0-0	6-0-6	6-11-10	2-0-0

Scale: 3/16"=1'
Camber = 1/2 in



6-11-10	13-0-0	17-0-0	21-0-0	27-0-6	34-0-0
6-11-10	6-0-6	4-0-0	4-0-0	6-0-6	6-11-10

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.97	Vert(LL)	-0.83	11	>481	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-1.33	11	>300	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.55	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 178 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T2 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS (lb/size) 2=1526/0-8-0, 7=1526/0-8-0
Max Horz 2=90(load case 3)
Max Uplift2=-624(load case 3), 7=-624(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-5593/2141, 3-4=-4802/1879, 4-5=-5760/2193, 5-6=-4802/1879, 6-7=-5593/2141, 7-8=0/35
BOT CHORD 2-13=-1913/5281, 12-13=-1924/5301, 11-12=-1573/4580, 10-11=-1573/4580, 9-10=-1924/5301, 7-9=-1913/5281
WEBS 3-13=0/114, 3-12=-753/358, 4-12=-131/527, 4-11=-394/1363, 5-11=-419/1363, 5-10=-131/527, 6-10=-753/368, 6-9=0/114

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 624 lb uplift at joint 2 and 624 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061408

Job	Truss	Truss Type	Qty	Ply	
L159972	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:22 2006 Page 1

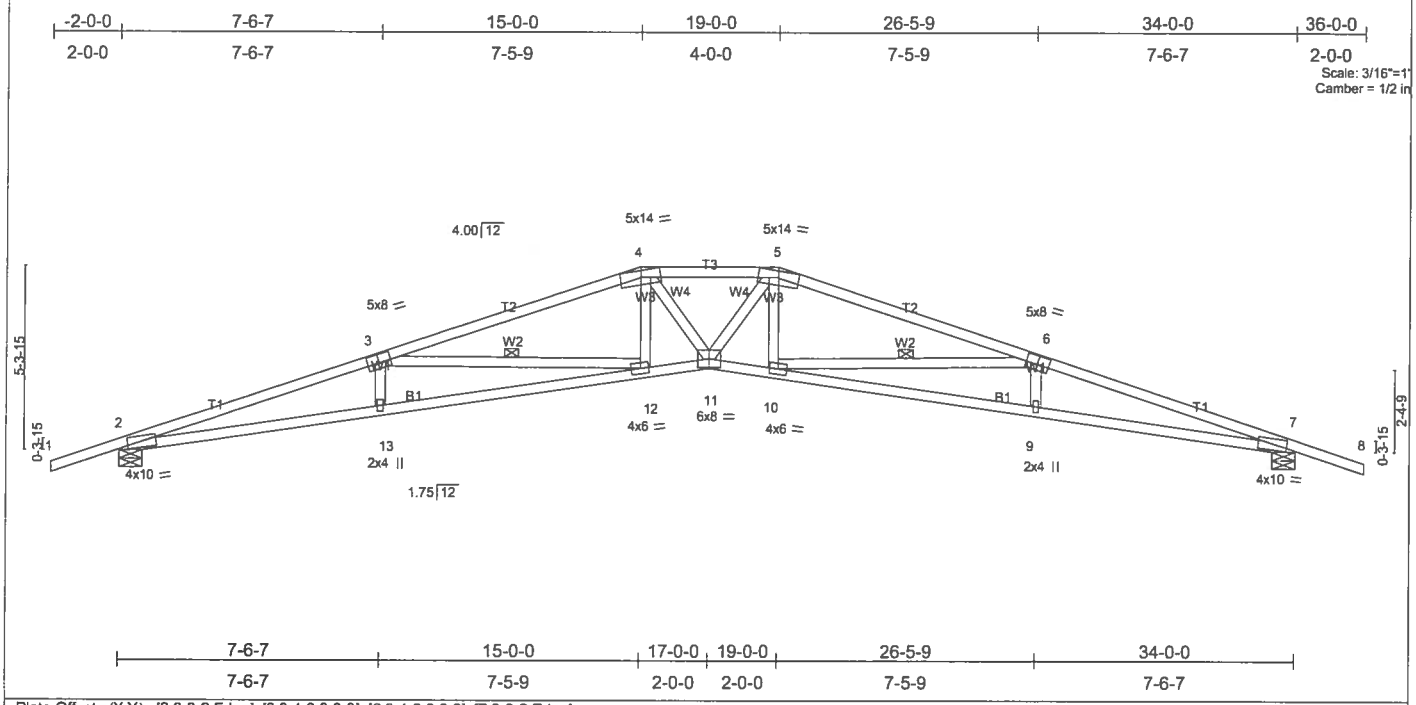


Plate Offsets (X,Y): [2:0-3-2,Edge], [3:0-4-0,0-3-0], [6:0-4-0,0-3-0], [7:0-3-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.91	Vert(LL)	-0.84	12-13	>475	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.90	Vert(TL)	-1.35	12-13	>295	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.63	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 153 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.
WEBS 1 Row at midpt 3-12, 6-10

REACTIONS (lb/size) 2=1526/0-8-0, 7=1526/0-8-0
Max Horz 2=-98(load case 4)
Max Uplift2=-610(load case 3), 7=-610(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-5570/2195, 3-4=-4233/1670, 4-5=-4332/1778, 5-6=-4233/1670, 6-7=-5570/2195, 7-8=0/31
BOT CHORD 2-13=-1963/5250, 12-13=-1964/5267, 11-12=-1349/4007, 10-11=-1349/4007, 9-10=-1964/5267, 7-9=-1963/5250
WEBS 3-13=0/214, 3-12=-1284/609, 4-12=-113/544, 4-11=-236/653, 5-11=-265/653, 5-10=-113/544, 6-10=-1284/609, 6-9=0/214

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 610 lb uplift at joint 2 and 610 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061409

Job	Truss	Truss Type	Qty	Ply	
L159972	T06	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:22 2006 Page 1

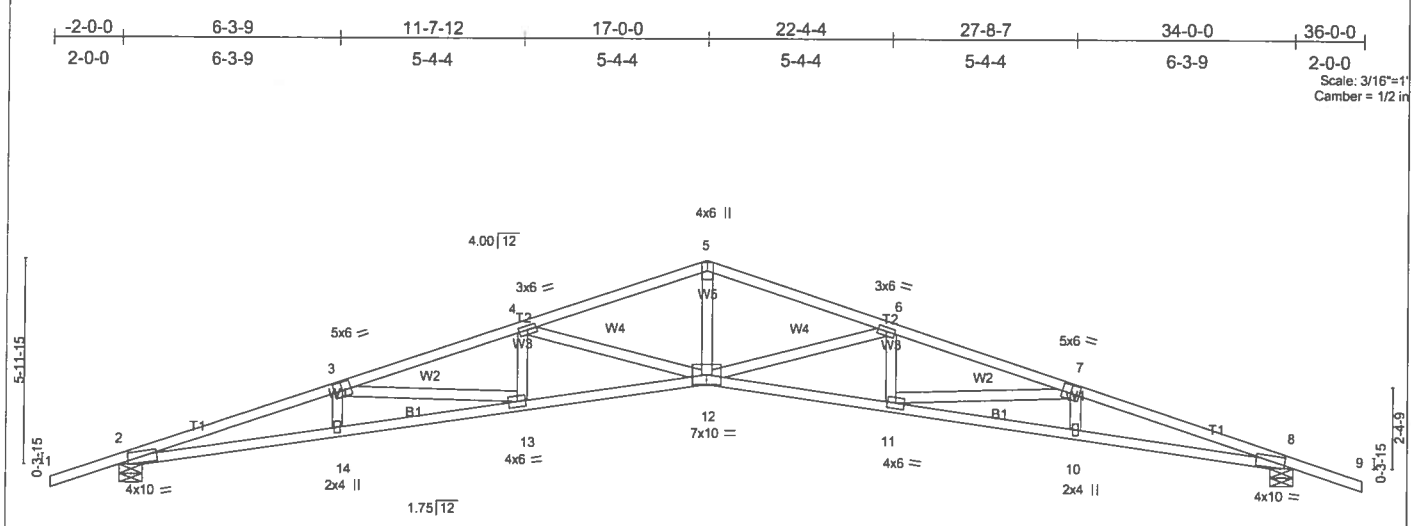


Plate Offsets (X,Y): [2:0-3-2,Edge], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-3-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.80	Vert(LL)	-0.80	12-13	>498	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.86	Vert(TL)	-1.29	12-13	>311	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.62	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 155 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-12 oc bracing.

REACTIONS (lb/size) 2=1526/0-8-0, 8=1526/0-8-0
Max Horz 2=-108(load case 4)
Max Uplift2=-598(load case 5), 8=-598(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-5522/2186, 3-4=-4823/1972, 4-5=-3770/1539, 5-6=-3770/1539, 6-7=-4823/1972, 7-8=-5522/2186, 8-9=0/31
BOT CHORD 2-14=-1956/5195, 13-14=-1965/5191, 12-13=-1681/4596, 11-12=-1681/4596, 10-11=-1965/5191, 8-10=-1956/5195
WEBS 3-14=0/152, 3-13=-658/281, 4-13=-53/341, 4-12=-1086/522, 5-12=-736/2055, 6-12=-1086/522, 6-11=-53/341, 7-11=-658/285, 7-10=0/152

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 2 and 598 lb uplift at joint 8.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061410

Job	Truss	Truss Type	Qty	Ply	
L159972	T07	SPECIAL	3	1	Job Reference (optional)

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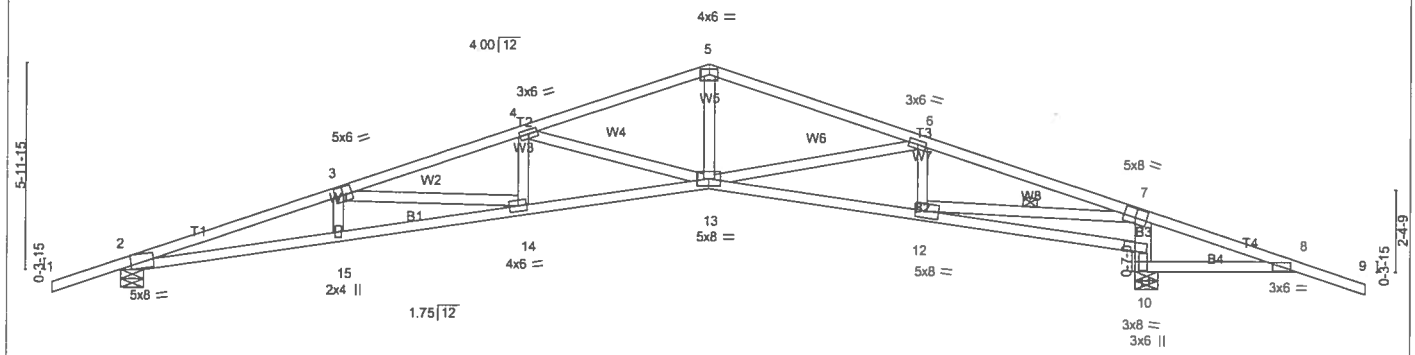
-2-0-0	6-3-9	11-7-12	17-0-0	23-2-0	29-4-0	34-0-0	36-0-0
2-0-0	6-3-9	5-4-4	5-4-4	6-2-0	6-2-0	4-8-0	2-0-0

Scale: 3/16"=1'
Camber = 5/16 in



6-3-9	11-7-12	17-0-0	23-2-0	29-4-0	29-8-0	34-0-0
6-3-9	5-4-4	5-4-4	6-2-0	6-2-0	0-4-0	4-4-0

Plate Offsets (X,Y): [2:0-3-11,Edge], [3:0-3-0,0-3-0], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.49	14-15	>710	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.79	14-15	>442	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.33	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-12

REACTIONS (lb/size) 2=1310/0-8-0, 10=1752/0-8-0
Max Horz 2=-108(load case 4)
Max Uplift2=-542(load case 5), 10=-792(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-4508/1611, 3-4=-3707/1339, 4-5=-2644/899, 5-6=-2652/895, 6-7=-2573/705, 7-8=-1012/911, 8-9=0/33
BOT CHORD 2-15=-1409/4234, 14-15=-1417/4227, 13-14=-1072/3526, 12-13=-568/2423, 11-12=-805/1363, 10-11=-1683/1010, 7-11=-1449/744, 8-10=-819/1039
WEBS 3-15=0/162, 3-14=-722/342, 4-14=-63/348, 4-13=-1093/526, 5-13=-327/1313, 6-13=-132/202, 6-12=-345/349, 7-12=-1767/3097

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 542 lb uplift at joint 2 and 792 lb uplift at joint 10.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061411

Job	Truss	Truss Type	Qty	Ply	
L159972	T09	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:24 2006 Page 1

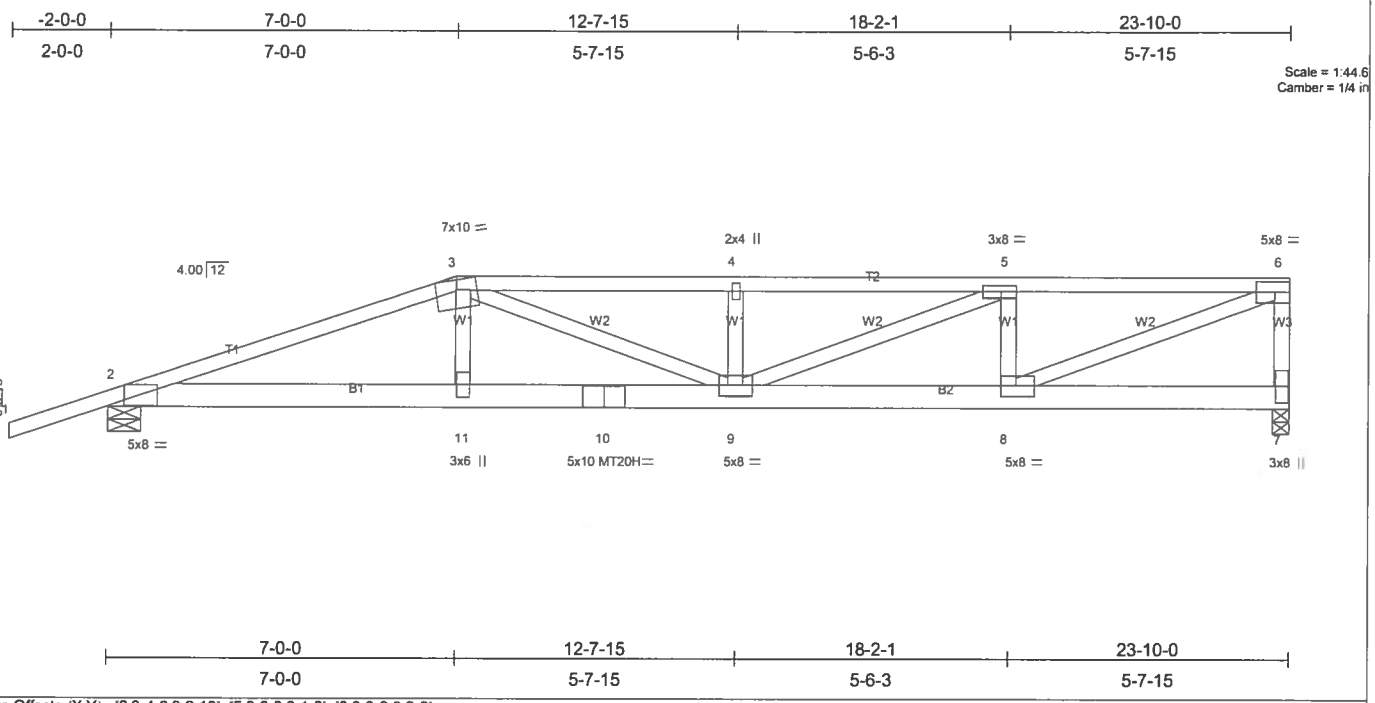


Plate Offsets (X,Y): [2:0-4-0,0-2-10], [5:0-3-8,0-1-8], [8:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.85	Vert(LL)	-0.37	9-11	>759	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.59	9-11	>474	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.08	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 131 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.2 *Except*
W1 2 X 4 SYP No.3, W1 2 X 4 SYP No.3, W1 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-2 oc bracing.

REACTIONS (lb/size) 7=2106/0-4-0, 2=2034/0-8-0
Max Horz 2=152(load case 2)
Max Uplift7=-866(load case 2), 2=-910(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-5108/2041, 3-4=-5593/2309, 4-5=-5593/2309, 5-6=-4026/1650, 6-7=-1890/862
BOT CHORD 2-11=-1976/4781, 10-11=-1987/4833, 9-10=-1987/4833, 8-9=-1650/4026, 7-8=-118/232
WEBS 3-11=-176/822, 3-9=-385/819, 4-9=-630/481, 5-9=-714/1696, 5-8=-1264/742, 6-8=-1658/4108

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 866 lb uplift at joint 7 and 910 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 236 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-112(F=-59), 2-11=-30, 7-11=-62(F=-33)
Concentrated Loads (lb)
Vert: 11=-539(F)

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061412

Job	Truss	Truss Type	Qty	Ply	
L159972	T10	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:24 2006 Page 1

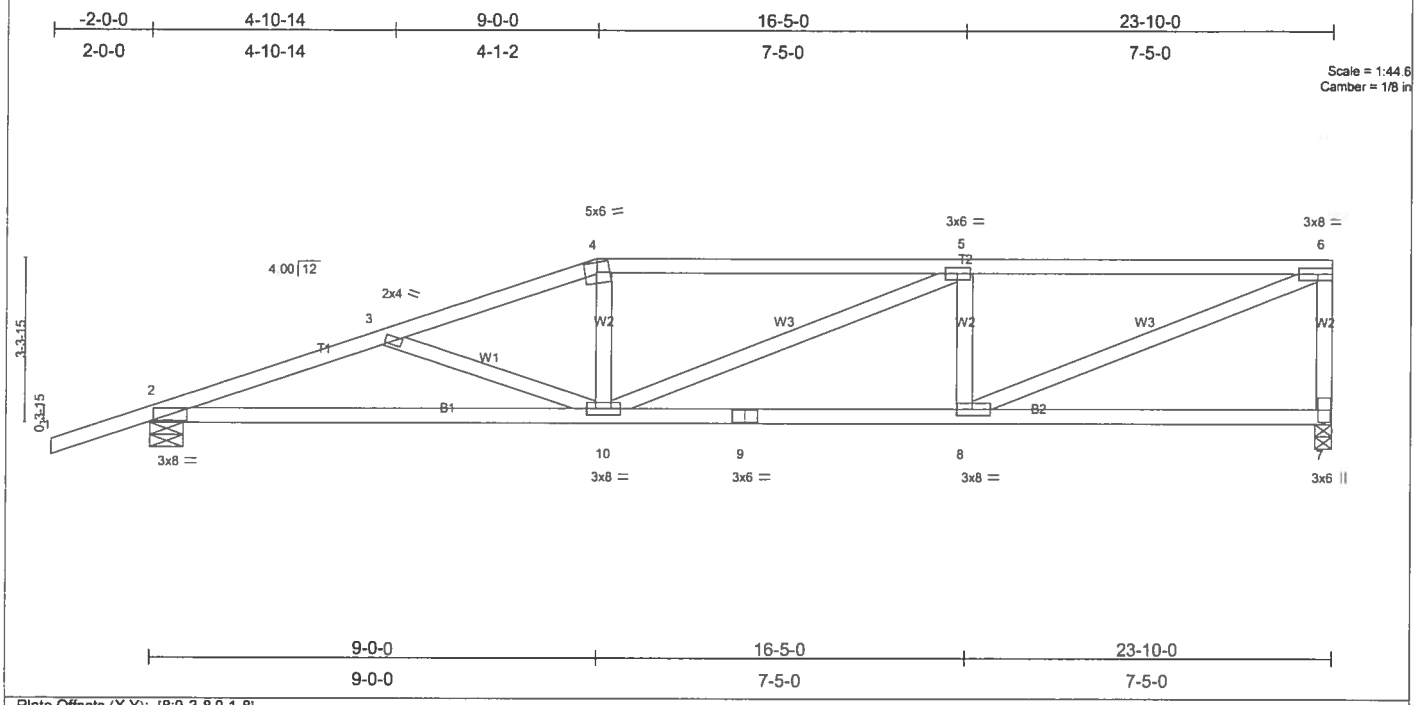


Plate Offsets (X,Y): [8:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.19	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.32	2-10	>865	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 116 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-14 oc bracing.

REACTIONS (lb/size) 7=975/0-4-0, 2=1113/0-8-0
Max Horz 2=181(load case 3)
Max Uplift7=-372(load case 3), 2=-499(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2205/865, 3-4=-1963/748, 4-5=-1850/749, 5-6=-1718/698, 6-7=-860/406
BOT CHORD 2-10=-907/2043, 9-10=-698/1718, 8-9=-698/1718, 7-8=-41/110
WEBS 3-10=-218/181, 4-10=0/272, 5-10=-83/143, 5-8=-468/322, 6-8=-712/1744

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 7 and 499 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

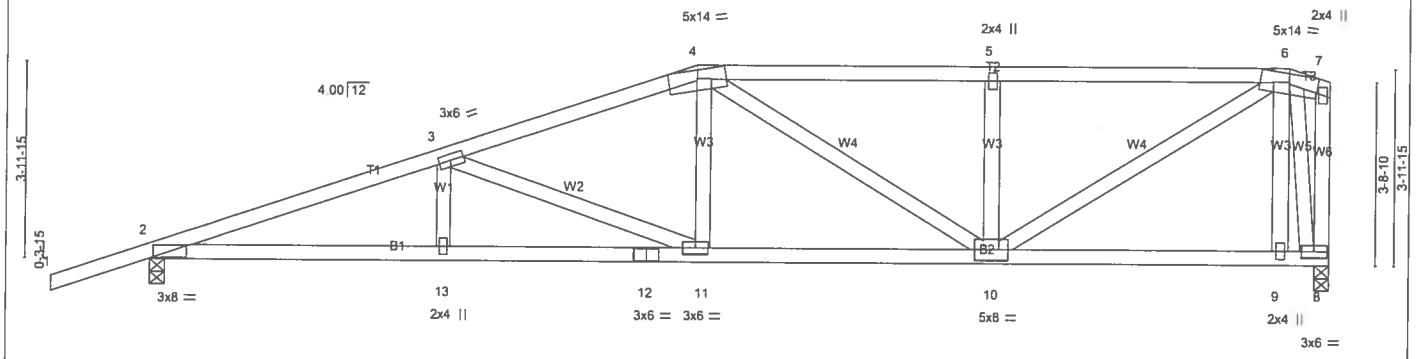
Dwg.#0419061413

Job	Truss	Truss Type	Qty	Ply	
L159972	T11	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:25 2006 Page 1

-2-0-0 | 5-10-14 | 11-0-0 | 17-0-0 | 23-0-0 | 23-10-0
2-0-0 | 5-10-14 | 5-1-2 | 6-0-0 | 6-0-0 | 0-10-0

Scale = 1:44.6
Camber = 1/16 in



5-10-14 | 11-0-0 | 17-0-0 | 23-0-0 | 23-10-0
5-10-14 | 5-1-2 | 6-0-0 | 6-0-0 | 0-10-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.13	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.22	11-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.06	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-13 oc bracing.

REACTIONS (lb/size) 2=1110/0-3-8, 8=983/0-3-8
Max Horz 2=204(load case 5)
Max Uplift2=-488(load case 3), 8=-379(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2360/879, 3-4=-1718/693, 4-5=-1336/563, 5-6=-1335/563, 6-7=-21/19, 7-8=-93/91
BOT CHORD 2-13=-944/2182, 12-13=-944/2182, 11-12=-944/2182, 10-11=-686/1606, 9-10=-93/232, 8-9=-95/227
WEBS 3-13=0/167, 3-11=-634/280, 4-11=-74/396, 4-10=-317/159, 5-10=-345/237, 6-10=-538/1297, 6-9=0/123, 6-8=-1102/464

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 2 and 379 lb uplift at joint 8.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

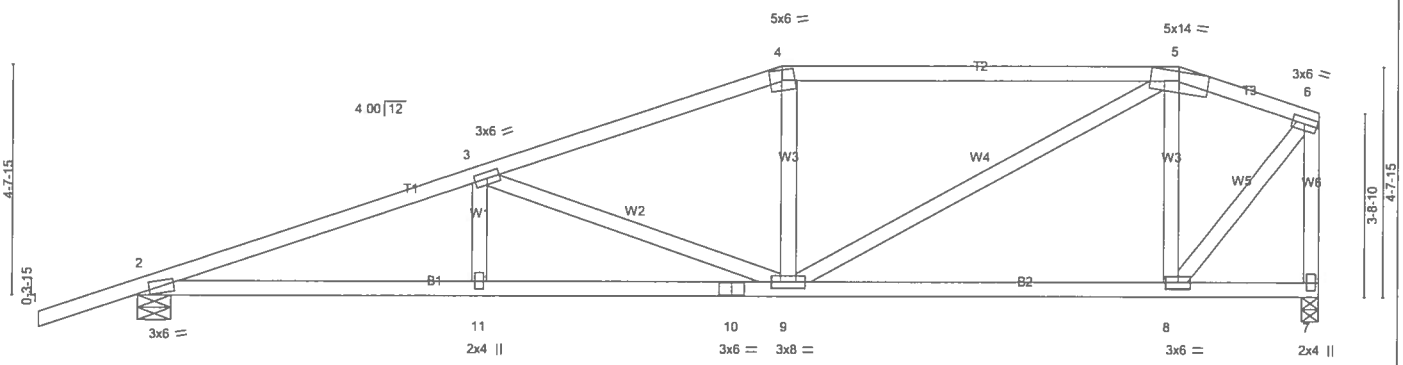
Dwg.#0419061414

Job	Truss	Truss Type	Qty	Ply	
L159972	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:26 2006 Page 1

-2-0-0 | 6-10-14 | 13-0-0 | 21-0-0 | 23-10-0
2-0-0 | 6-10-14 | 6-1-2 | 8-0-0 | 2-10-0

Scale = 1:44.6
Camber = 1/16 in



6-10-14 | 13-0-0 | 21-0-0 | 23-10-0
6-10-14 | 6-1-2 | 8-0-0 | 2-10-0

Plate Offsets (X,Y): [2:0-2-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.22	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=1113/0-8-0, 7=975/0-4-0
Max Horz 2=214(load case 3)
Max Uplift2=-492(load case 3), 7=-340(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2224/836, 3-4=-1481/611, 4-5=-1362/624, 5-6=-664/282, 6-7=-978/407
BOT CHORD 2-11=-893/2042, 10-11=-893/2042, 9-10=-893/2042, 8-9=-249/617, 7-8=-14/5
WEBS 3-11=0/194, 3-9=-728/333, 4-9=0/108, 5-9=-376/867, 5-8=-587/365, 6-8=-415/1020

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 2 and 340 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061415

Job	Truss	Truss Type	Qty	Ply	
L159972	T13	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:26 2006 Page 1

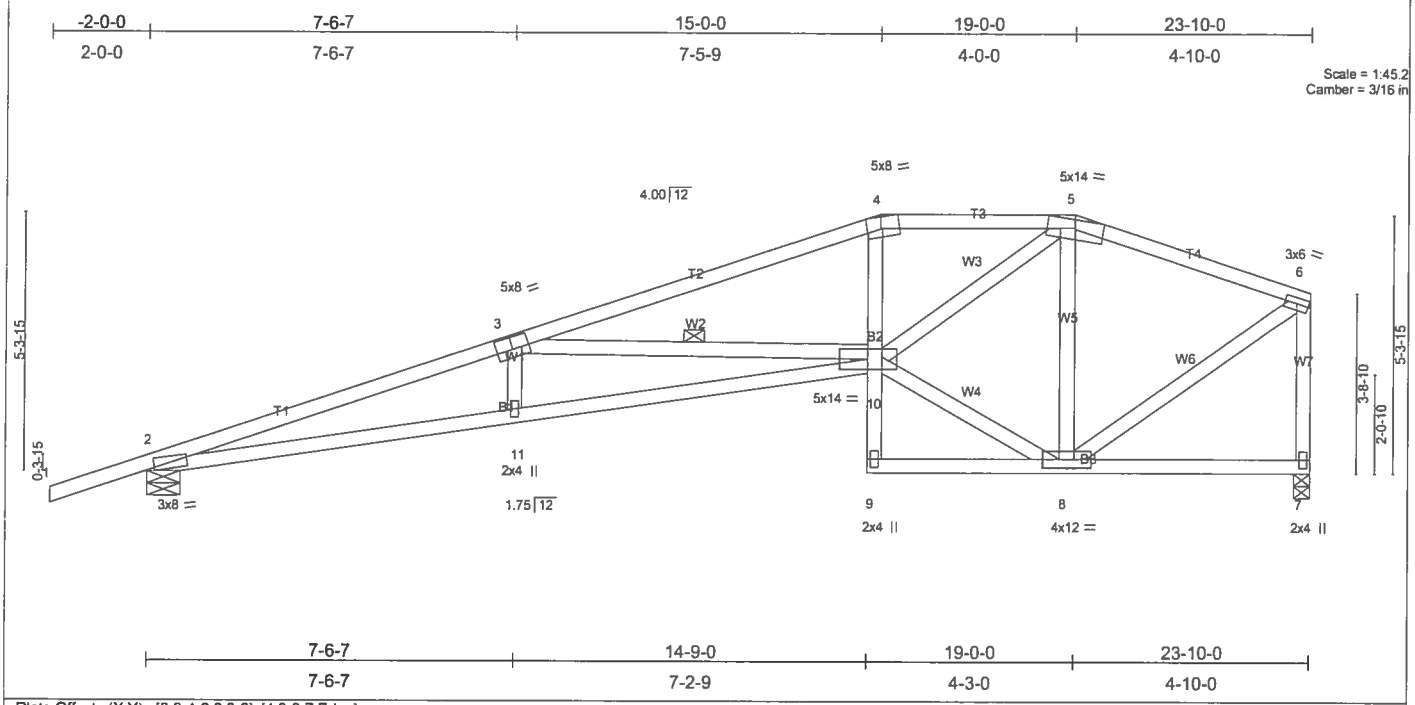


Plate Offsets (X,Y): [3:0-4-0,0-3-0], [4:0-3-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.34	10-11	>820	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.55	10-11	>508	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.22	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 129 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-4 oc bracing.
WEBS 1 Row at midpt 3-10

REACTIONS (lb/size) 2=1113/0-8-0, 7=975/0-4-0
Max Horz 2=223(load case 3)
Max Uplift2=-485(load case 3), 7=-318(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-3558/1455, 3-4=-2098/902, 4-5=-1825/857, 5-6=-844/380, 6-7=-900/427
BOT CHORD 2-11=-1488/3341, 10-11=-1488/3352, 9-10=0/55, 4-10=-34/322, 8-9=-30/17, 7-8=-21/40
WEBS 3-11=0/229, 3-10=-1378/639, 8-10=-308/815, 5-10=-585/1340, 5-8=-760/394, 6-8=-361/889

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 485 lb uplift at joint 2 and 318 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061416

Job	Truss	Truss Type	Qty	Ply	
L159972	T14	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:27 2006 Page 1

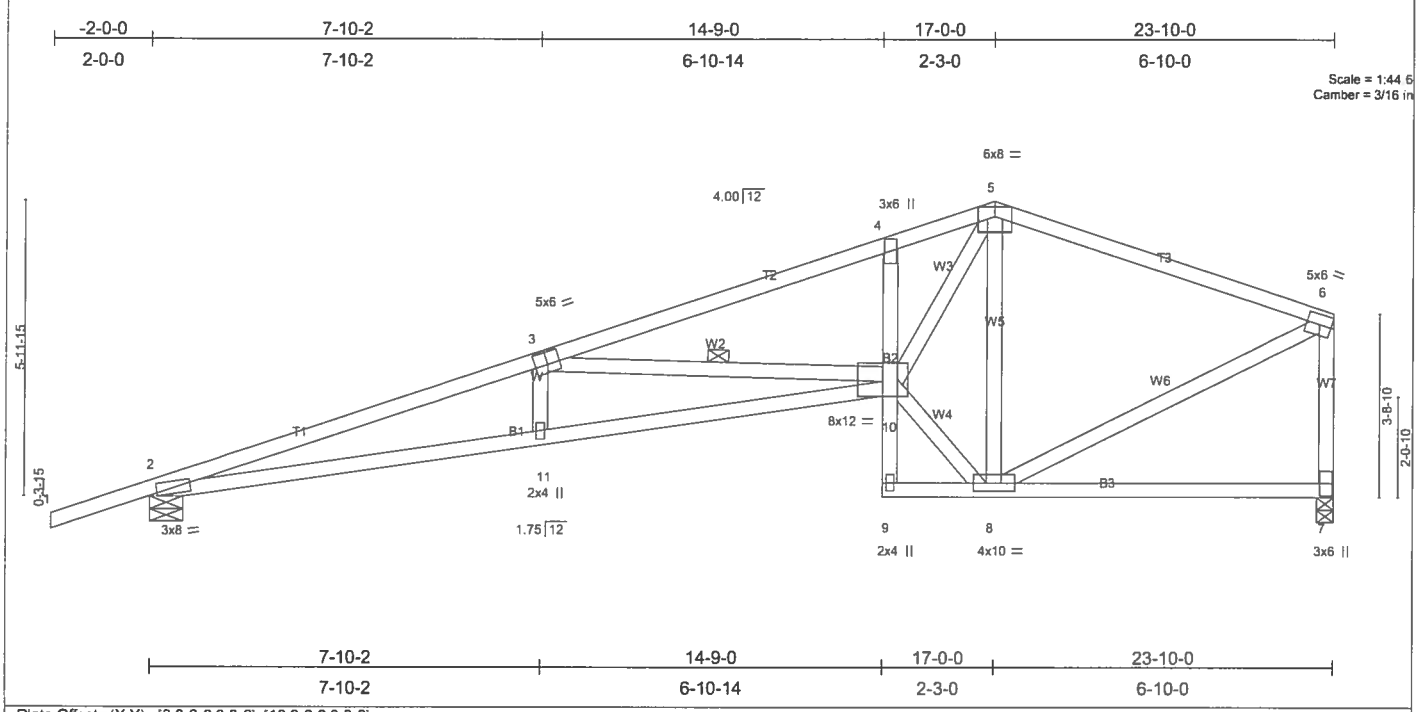


Plate Offsets (X,Y): [3:0-3-0,0-3-0], [10:0-6-0,0-3-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.33	10-11	>845	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.53	10-11	>525	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.23	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 129 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 "Except"
B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.
WEBS 1 Row at midpt 3-10

REACTIONS (lb/size) 2=1113/0-8-0, 7=975/0-4-0
Max Horz 2=233(load case 3)
Max Uplift2=-477(load case 5), 7=-301(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-3517/1451, 3-4=-2070/914, 4-5=-1887/907, 5-6=-964/449, 6-7=-871/443
BOT CHORD 2-11=-1482/3301, 10-11=-1486/3283, 9-10=-23/0, 4-10=-214/157, 8-9=-47/24, 7-8=-41/80
WEBS 3-11=0/240, 3-10=-1342/631, 8-10=-441/1169, 5-10=-833/1877, 5-8=-1054/537, 6-8=-361/879

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2 and 301 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061417

Job	Truss	Truss Type	Qty	Ply	
L159972	T15	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:28 2006 Page 1

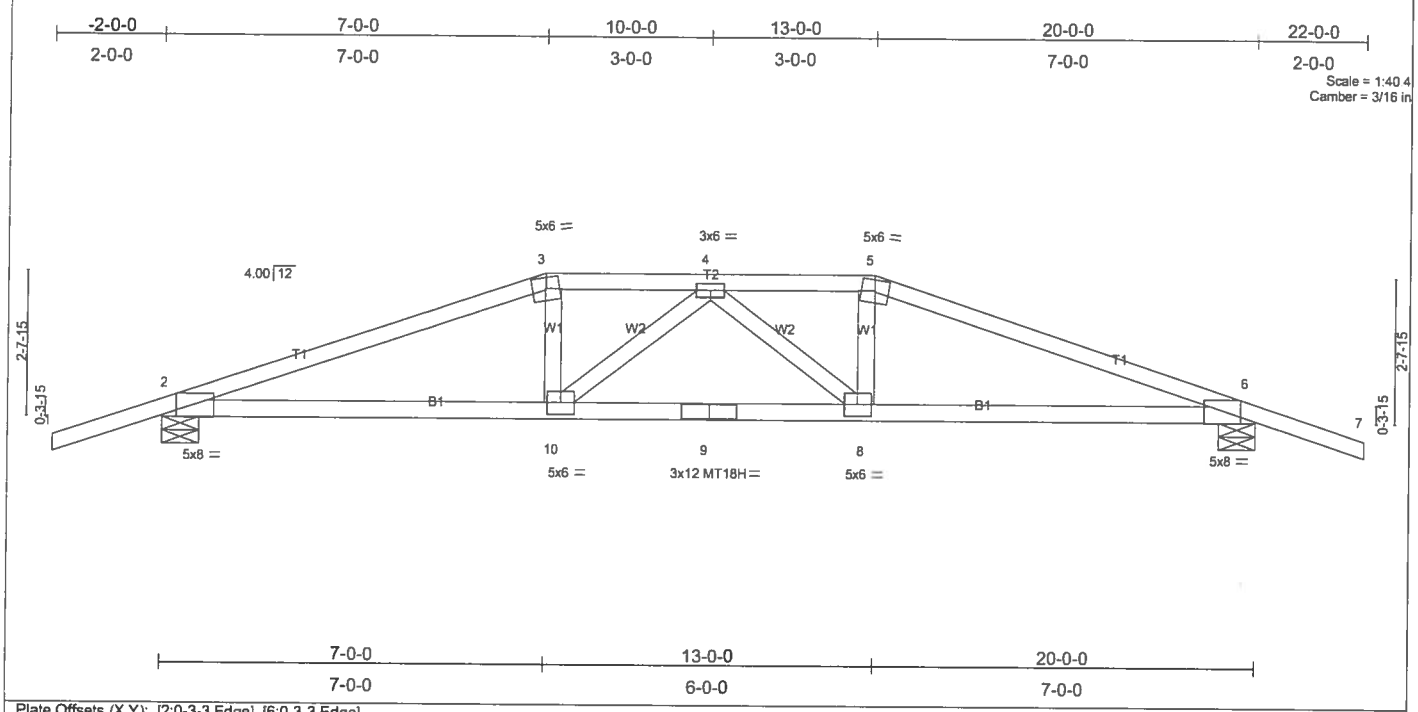


Plate Offsets (X,Y): [2:0-3-3,Edge], [6:0-3-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.28	8-10	>819	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.46	8-10	>506	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.33	Horz(TL)	0.12	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 83 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-0-5 oc bracing.

REACTIONS (lb/size) 6=1745/0-8-0, 2=1745/0-8-0
Max Horz 2=60(load case 2)
Max Uplift6=-782(load case 3), 2=-782(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4111/1596, 3-4=-3877/1562, 4-5=-3877/1563, 5-6=-4111/1596, 6-7=0/33
BOT CHORD 2-10=-1456/3818, 9-10=-1576/4018, 8-9=-1576/4018, 6-8=-1414/3818
WEBS 3-10=-301/1034, 4-10=-320/187, 4-8=-320/187, 5-8=-301/1034

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 782 lb uplift at joint 6 and 782 lb uplift at joint 2.
6) Girder carries hip end with 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 236 lb up at 13-0-0, and 539 lb down and 236 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-112(F=-59), 5-7=-54, 2-10=-30, 8-10=-62(F=-33), 6-8=-30
Concentrated Loads (lb)
Vert: 10=-539(F) 8=-539(F)

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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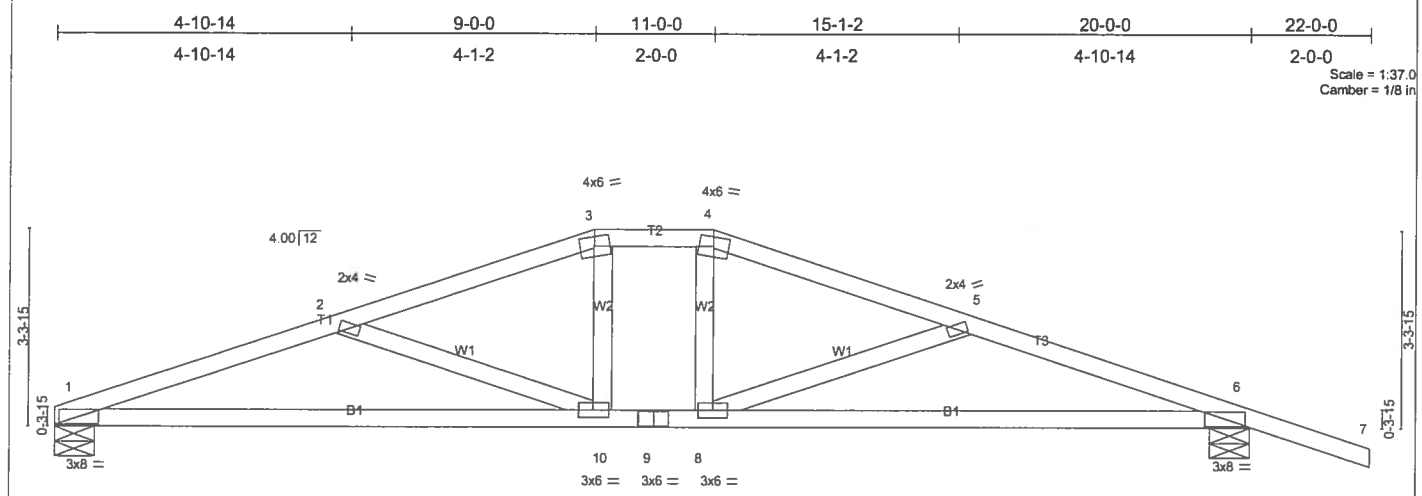
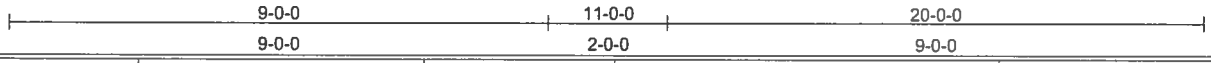
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061418

Job	Truss	Truss Type	Qty	Ply	
L159972	T16	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:28 2006 Page 1





LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.21	1-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.34	1-10	>676	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 86 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.

REACTIONS (lb/size) 1=804/0-8-0, 6=946/0-8-0
Max Horz 1=-86(load case 4)
Max Uplift1=-272(load case 3), 6=-414(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1792/816, 2-3=-1426/589, 3-4=-1327/591, 4-5=-1424/586, 5-6=-1741/741, 6-7=0/33
BOT CHORD 1-10=-669/1668, 9-10=-385/1327, 8-9=-385/1327, 6-8=-586/1610
WEBS 2-10=-420/306, 3-10=-83/298, 4-8=-27/257, 5-8=-363/221

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 1 and 414 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061419

Job	Truss	Truss Type	Qty	Ply	
L159972	T17	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:29 2006 Page 1

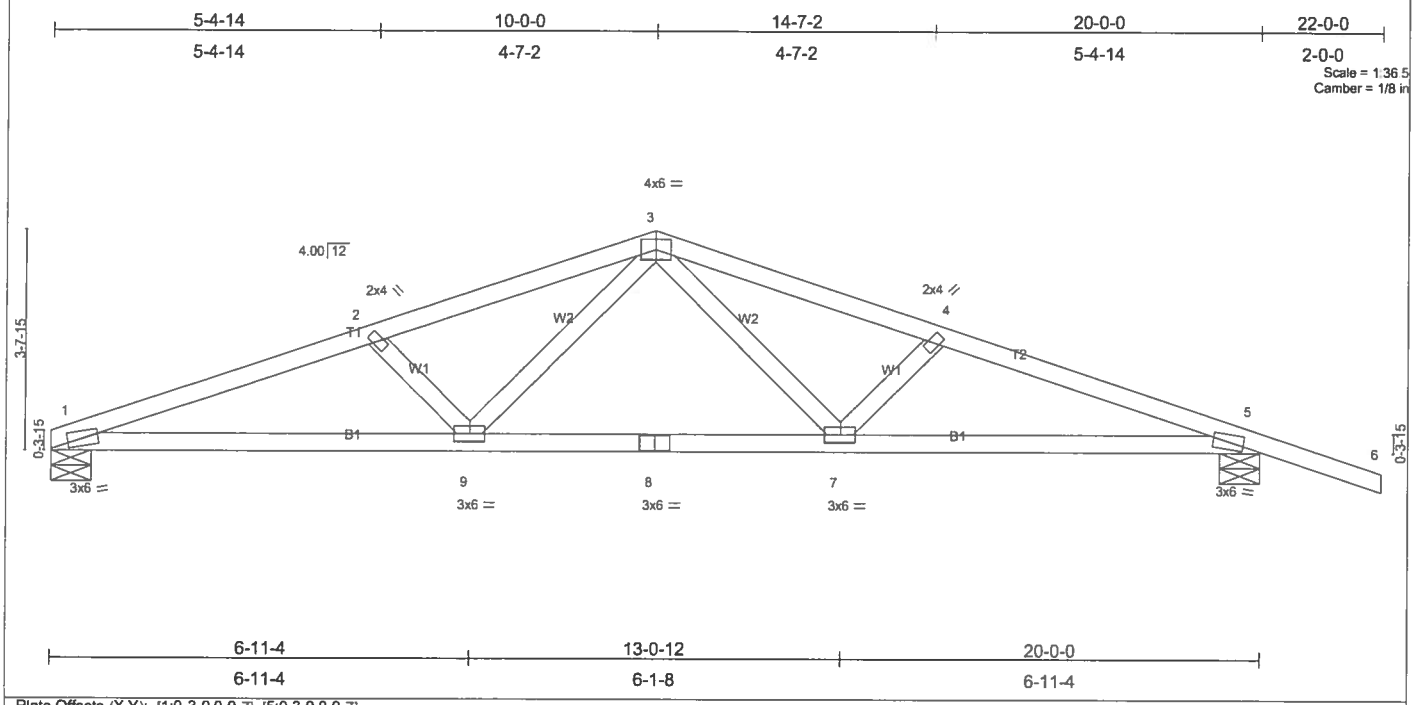


Plate Offsets (X,Y): [1:0-3-9,0-0-7], [5:0-3-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.20	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.33	7-9	>711	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-9-5 oc bracing.

REACTIONS (lb/size) 1=958/0-8-0, 5=1099/0-8-0
Max Horz 1=-90(load case 4)
Max Uplift1=-324(load case 5), 5=-466(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2299/1005, 2-3=-2131/933, 3-4=-2093/878, 4-5=-2261/937, 5-6=0/33
BOT CHORD 1-9=-842/2132, 8-9=-510/1492, 7-8=-510/1492, 5-7=-768/2081
WEBS 2-9=-240/213, 3-9=-279/752, 3-7=-204/704, 4-7=-215/179

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 324 lb uplift at joint 1 and 466 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 1-9=-30, 7-9=-80(F=-50), 5-7=-30

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061420

Job	Truss	Truss Type	Qty	Ply	
L159972	T18	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:46:30 2006 Page 1

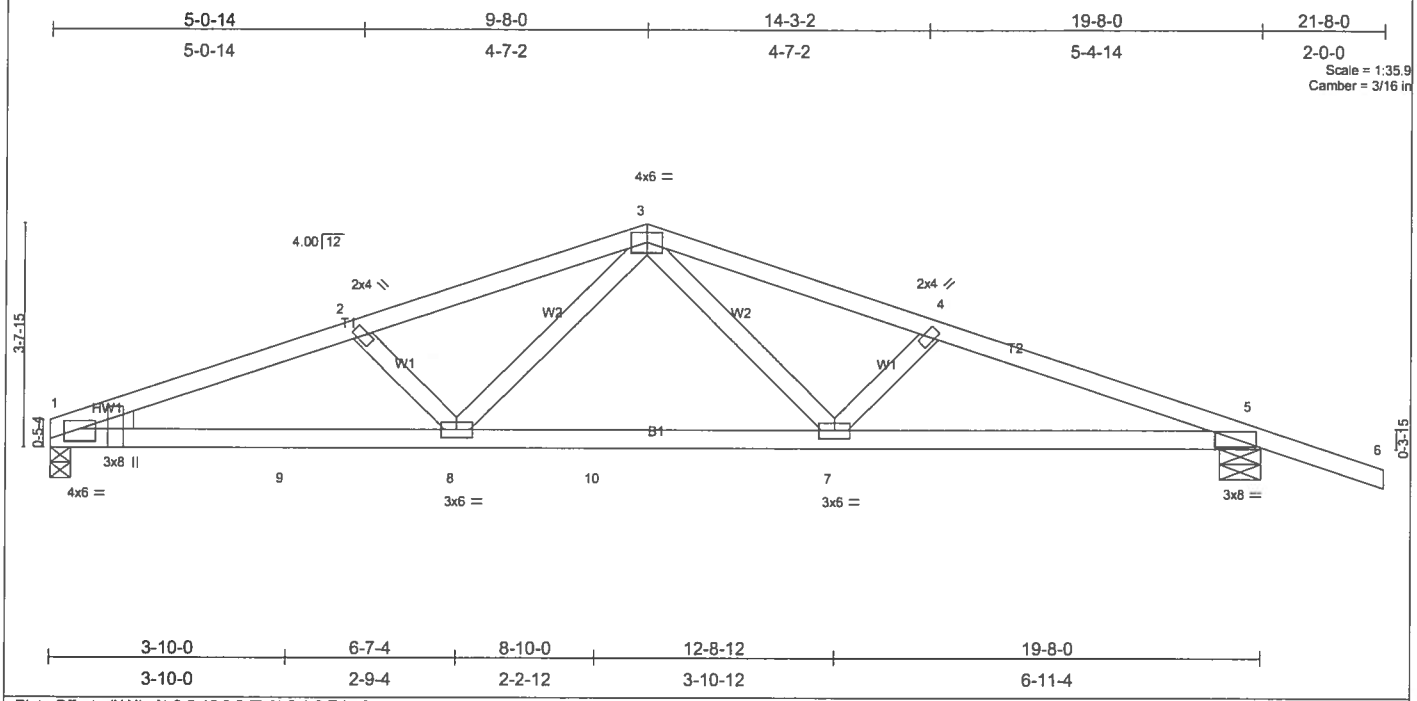


Plate Offsets (X,Y): [1:0-2-13,0-0-7], [1:0-1-9,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.20	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.39	7-8	>588	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(TL)	0.07	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS (lb/size) 5=1155/0-8-0, 1=1087/0-4-0
Max Horz 1=-90(load case 4)
Max Uplift5=-399(load case 6), 1=-186(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2548/664, 2-3=-2396/597, 3-4=-2268/668, 4-5=-2433/731, 5-6=0/33
BOT CHORD 1-9=-516/2359, 8-9=-516/2359, 8-10=-330/1638, 7-10=-330/1638, 5-7=-575/2242
WEBS 2-8=-208/202, 3-8=-74/911, 3-7=-175/734, 4-7=-206/188

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 200.0lb AC unit load placed on the bottom chord, 6-4-0 from left end, supported at two points, 5-0-0 apart.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 5 and 186 lb uplift at joint 1.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down at 3-10-0, and 100 lb down at 8-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 1-8=-30, 7-8=-80(F=-50), 5-7=-30
Concentrated Loads (lb)
Vert: 9=-100 10=-100

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061421

Job	Truss	Truss Type	Qty	Ply	
L159972	T19	HIP	1	2	Job Reference (optional)

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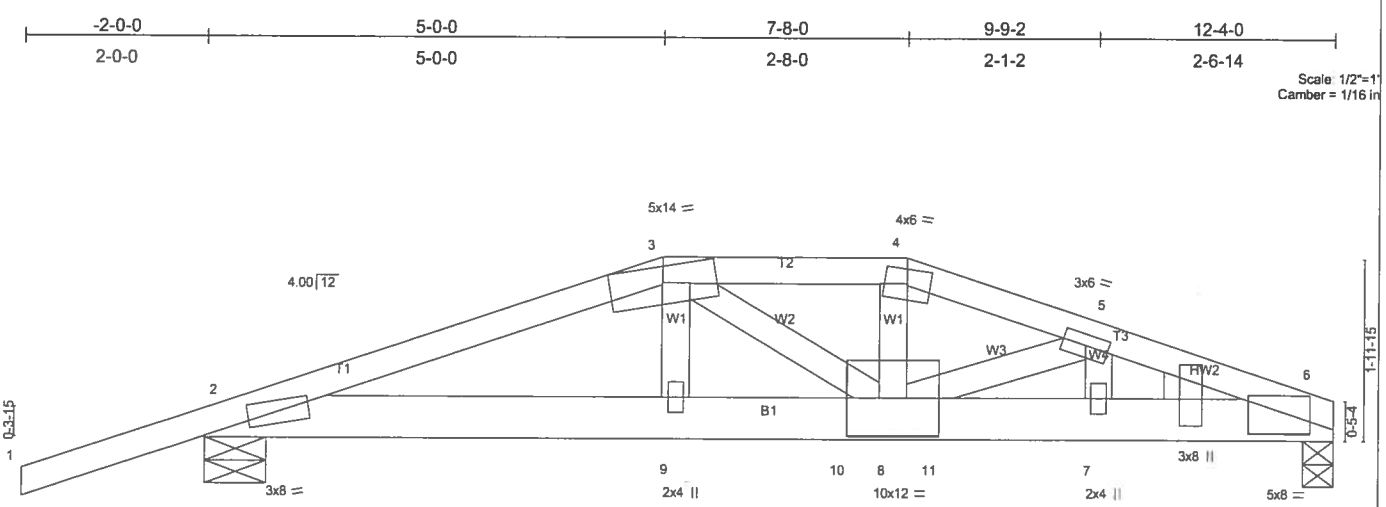

5-0-0	7-0-0	7-8-0	9-9-2	12-4-0
5-0-0	2-0-0	0-8-0	2-1-2	2-6-14

Plate Offsets (X,Y): [2:0-5-15,0-0-1], [6:0-3-1,0-0-10], [6:0-0-7,1-5-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.12	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.19	8-9	>767	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.39	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 128 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3
WEDGE
Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=2548/0-8-0, 6=4355/0-4-0
Max Horz 2=70(load case 2)
Max Uplift2=-1061(load case 2), 6=-1650(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-6637/2496, 3-4=-8184/3140, 4-5=-8393/3205, 5-6=-8928/3384
BOT CHORD 2-9=-2302/6226, 9-10=-2319/6291, 8-10=-2319/6291, 8-11=-3133/8312, 7-11=-3133/8312, 6-7=-3133/8312
WEBS 3-9=-207/744, 3-8=-887/2317, 4-8=-884/2431, 5-8=-383/353, 5-7=-330/657

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1061 lb uplift at joint 2 and 1650 lb uplift at joint 6.
7) Girder carries tie-in span(s): 30-9-0 from 8-0-0 to 12-0-0
8) Girder carries hip end with 4-8-0 right side setback, 5-0-0 left side setback, and 5-0-0 end setback.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 229 lb down and 100 lb up at 7-8-0, and 245 lb down and 107 lb up at 5-0-0, and 2697 lb down and 1018 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-86(F=-31), 4-6=-54, 2-9=-30, 8-9=-47(F=-17), 8-11=-30, 6-11=-627(F=-597)
Concentrated Loads (lb)
Vert: 9=-245(F) 8=-229(F) 10=-2697(F)

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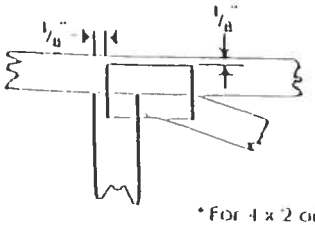
Symbols

PLATE LOCATION AND ORIENTATION

* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

* This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

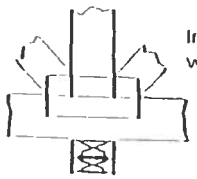
4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

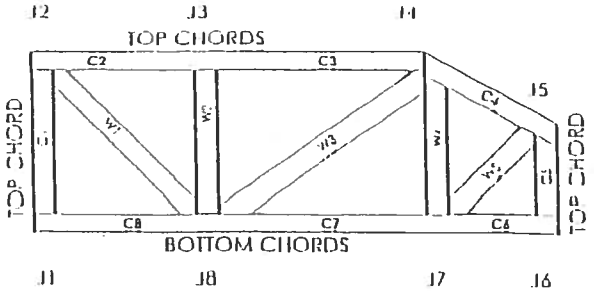
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-H
HER	561

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transfering connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 56 Baya Dr
City Lake City Phone 252-1703

Site Location: Subdivision _____
Lot # 7 Block# _____ Permit # 24584
Address 386 SW Mollie Tsr L.C.

Product used	Active Ingredient	% Concentration
☑ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Building	1958	140	140

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

6/26/06 Date | 11:20 Time | [illegible] Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 07-4S-16-02808-025 **Building permit No.** 000024584

Use Classification SFD/UTILITY **Fire:** 55.80

Permit Holder DAVE MANGRUM **Waste:** 167.50

Owner of Building DAVE MANGRUM **Total:** 223.30

Location: 386 SW MOLLIE TERR.(BARWICK WEST,LOT 7)

Date: 12/15/2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)